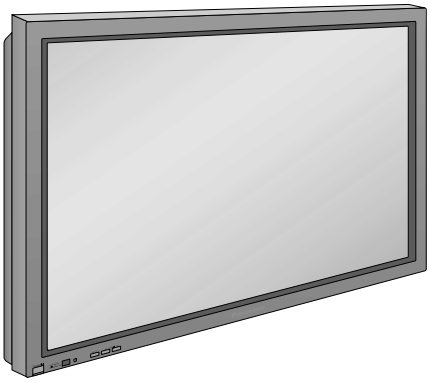
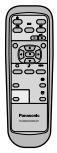
Panasonic®





Progressive Wide Plasma Display
Operating Instructions

TH-37PW5
Model No. **TH-42PW5**

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

English

TQBC0429-1

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.
To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.
Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site *http://www.panasonic.co.jp/global/*

For United Kingdom and Republic of Ireland

shop@ Panasonic

www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.)
- Or go on line through our Internet Accessory ordering application.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!

Customer Care Centre

For UK customers: 08705 357357
For Republic of Ireland customers: 01 289 8333

Technical Support

For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only.

For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

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Trademark Credits
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.

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Note:
Do not allow a still picture or any part of a still picture i.e. edges to be displayed for an extended period, as this can cause a permanent after-image to remain on the Wide Plasma Display.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. (Refer to pages 28 , 29 and 35 for further information.)

Important Safety Notice

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.
Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
2) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.
Do not defeat the purpose of the earthing plug.
3) This is a class A product. In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.

To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

IMPORTANT: THE MOULDED PLUG

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained
A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home, then the fuse shall be removed and the plug cut off and disposed of safety. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

WARNING: — THIS APPARATUS MUST BE EARTHED.

IMPORTANT: — The wires in this mains lead are coloured in accordance with the following code: —

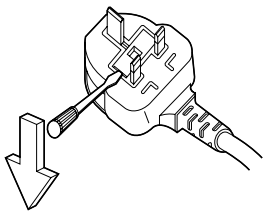
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.



How to replace the fuse. Open the fuse compartment with a screwdriver and replace the fuse.

WARNING

Setup

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

- Speakers TY-SP37P5W-S (TH-37PW5)
  TY-SP42P5W-S (TH-42PW5)
- Pedestal TY-ST05-S
- Wall stand TY-ST42PW1
- Mobile stand TY-ST42PF3 (TH-42PW5)
- Wall-hanging bracket (vertical) TY-WK37PV3 (TH-37PW5), TY-WK42PV1 (TH-42PW5)
- Wall-hanging bracket (angled) TY-WK42PR1 (TH-42PW5)
- Ceiling unit TY-CE42PS1
- Scart/Component Terminal Board ... TY-37TM5TB (TH-37PW5), TY-42TM5TB (TH-42PW5)
- RCA Terminal Board TY-37TM4ZB (TH-37PW5), TY-42TM4ZB (TH-42PW5)
- Receiver TU-PT600B
- Tuner Terminal Board TY-37TM5H (TH-37PW5), TY-42TM5H (TH-42PW5)
- Connecting Cable TY-SCP15C03

Always be sure to ask a qualified technician to carry out set-up.

Do not place the Plasma Display on sloped or unstable surfaces.

- The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

- If water is spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult your local Panasonic dealer.

If using the pedestal (optional accessory), leave a space of at least 10 cm at the top, left and right, at least 6 cm at the bottom, and at least 7 cm at the rear. If using some other setting-up method, leave a space of at least 10 cm at the top, bottom, left and right, and at least 1.9 cm at the rear.

Avoid installing this product near electronic equipment that is easy to receive electromagnetic waves.

- It will cause interference in image, sound, etc. In particular, keep video equipment away from this product.

When using the Plasma Display

The Plasma Display is designed to operate on 220 - 240 V AC, 50/60 Hz.
Do not cover the ventilation holes.

- Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Do not stick any foreign objects into the Plasma Display.

- Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.

- High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Securely insert the power cord plug as far as it will go.

- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they shall not be used.

Do not handle the power cord plug with wet hands.

- Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.

- Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is damaged, have it repaired at your local Panasonic dealer.

If the Plasma Display is not going to be used for any prolonged length of time, unplug the power cord plug from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out from the Plasma Display, immediately unplug the power cord plug from the wall outlet.

- If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Plasma Display yourself is extremely dangerous, and should never be attempted.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damages, disconnect the power cord plug immediately.

- A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.

⚠ CAUTION

When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

- Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

Be sure to disconnect all cables before moving the Plasma Display.

- If the Plasma Display is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power cord plug from the wall socket as a safety precaution before carrying out any cleaning.

- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

- If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe the mains lead with a dry cloth.

CAUTION
This appliance is intended for use in environments which are relatively free of electromagnetic fields.
Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear.
To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water to which a small amount of neutral detergent has been added, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

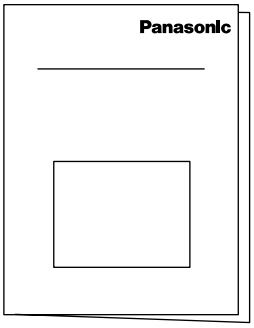
- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Accessories

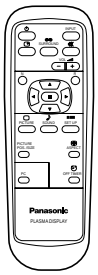
Accessories Supply

Check that you have the accessories and items shown ☑

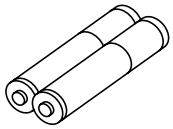
☐ Operating Instruction book



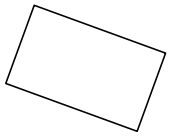
☐ Remote Control Transmitter
EUR646525



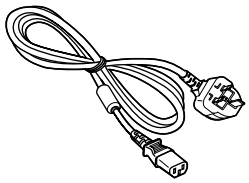
☐ Batteries for the Remote Control Transmitter
(2 × R6 Size)



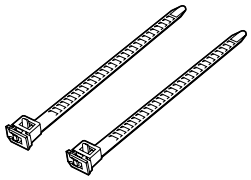
☐ Guarantee Card



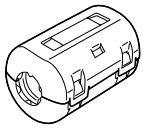
☐ AC cord



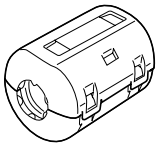
☐ Fixing bands



☐ Ferrite core (small size)
J0KF00000018 × 1

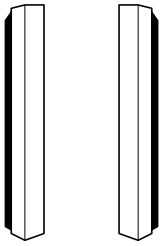


☐ Ferrite core (large size)
J0KG00000054 × 2

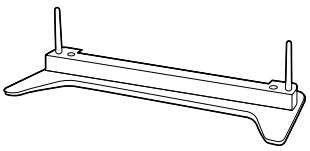


Optional Accessories

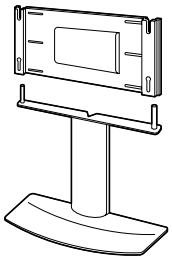
● Speakers
TY-SP37P5W-S (TH-37PW5)
TY-SP42P5W-S (TH-42PW5)



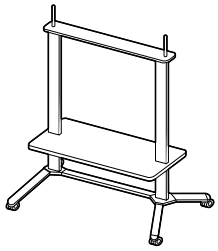
● Pedestal
TY-ST05-S



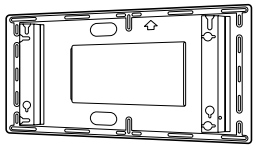
● Wall stand
TY-ST42PW1



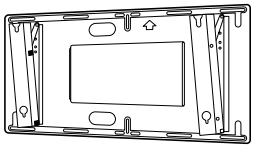
● Mobile stand
TY-ST42PF3
(TH-42PW5)



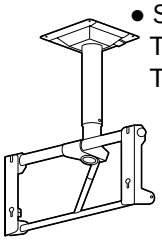
● Wall-hanging bracket (vertical)
TY-WK37PV3 (TH-37PW5)
TY-WK42PV1 (TH-42PW5)



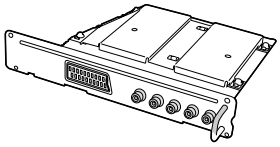
● Wall-hanging bracket (angled)
TY-WK42PR1 (TH-42PW5)



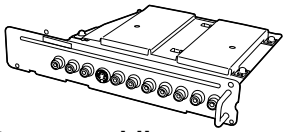
● Ceiling unit
TY-CE42PS1



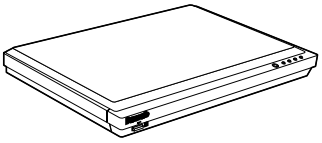
● Scart/Component Terminal Board
TY-37TM5TB (TH-37PW5)
TY-42TM5TB (TH-42PW5)



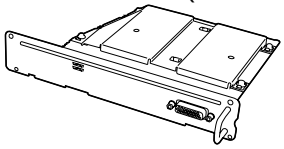
● RCA Terminal Board
TY-37TM4ZB(TH-37PW5)
TY-42TM4ZB(TH-42PW5)



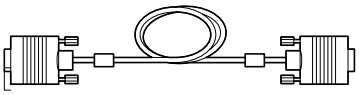
● Receiver
TU-PT600B



● Tuner Terminal Board
TY-37TM5H (TH-37PW5)
TY-42TM5H (TH-42PW5)



● Connecting Cable
TY-SCP15C03
15 m (49.2 ft)

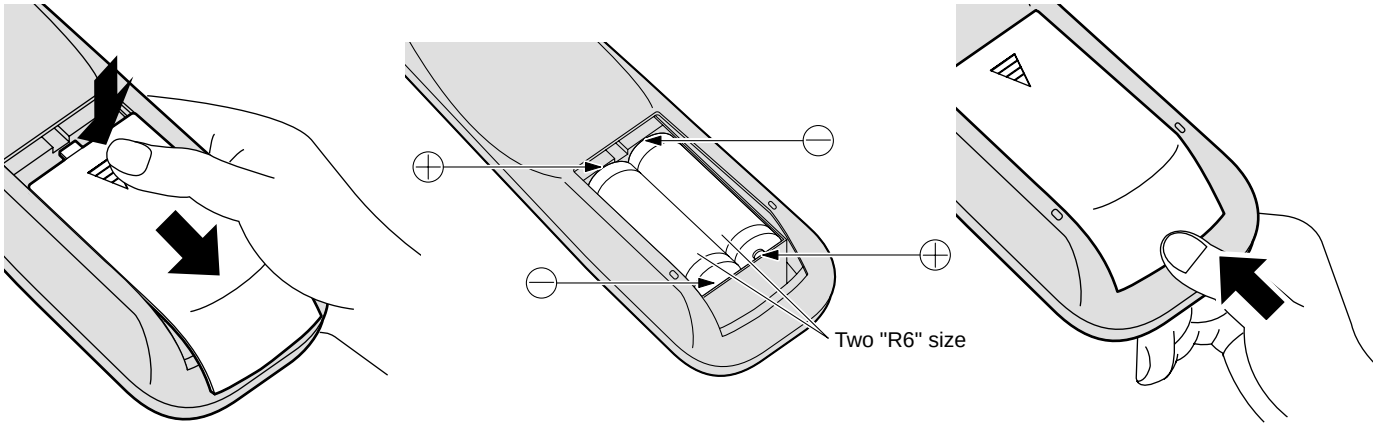


For assembling
Full instructions are supplied with each optional accessory for use with this Plasma Display.

Remote Control Batteries

Requires two R6 batteries.

1. Turn the transmitter face down. Press and slide off the battery cover.
2. Install the batteries as shown in the battery compartment. (Polarity + or – must match the markings in the compartment.)
3. Replace the cover and slide in reverse until the lock snaps.



Helpful Hint:
For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

⚠ Precaution on battery use

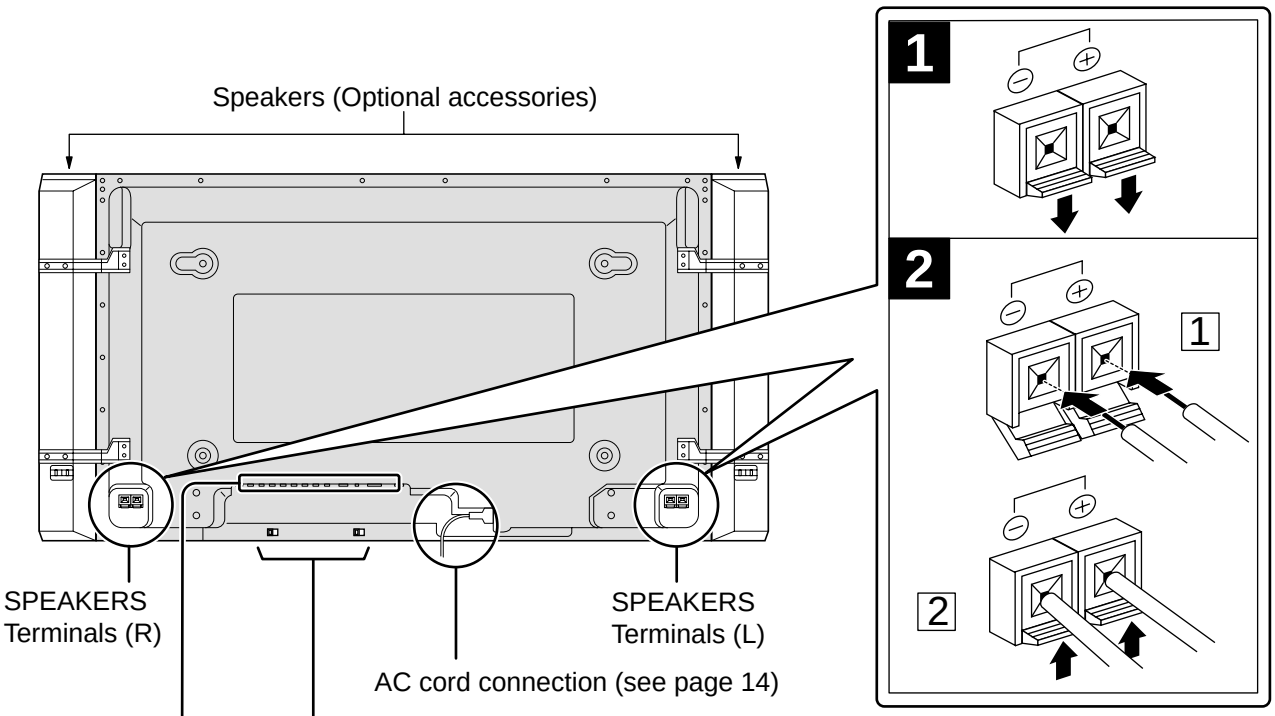
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

Observe the following precaution:

1. Batteries shall always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: “Zinc Carbon” with “Alkaline”).
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when remote control acts sporadically or stops operating the Plasma Display set.

Connections

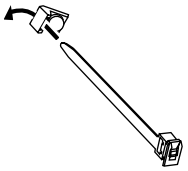
When connecting the speakers, be sure to use only the optional accessory speakers.
Refer to the speaker's Installation Manual for details on speaker installation.



– Cable fixing bands

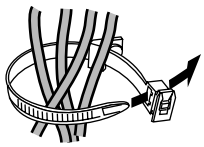
Secure any excess cables with bands as required.

Pass the attached cable fixing band through the clip as shown in the figure.



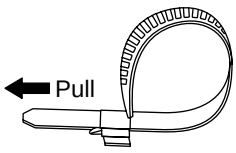
1

To secure cables connected to Terminals, wrap the cable fixing band around them then pass the pointed end through the locking block, as shown in the figure. **While ensuring there is sufficient slack in cables to minimize stress (especially in the power cord), firmly bind all cables with the supplied fixing band.**

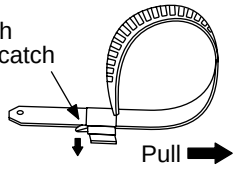


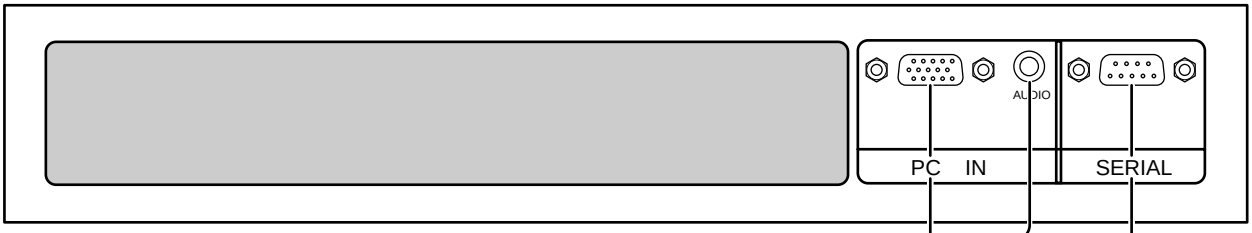
2

To tighten:



To loosen:



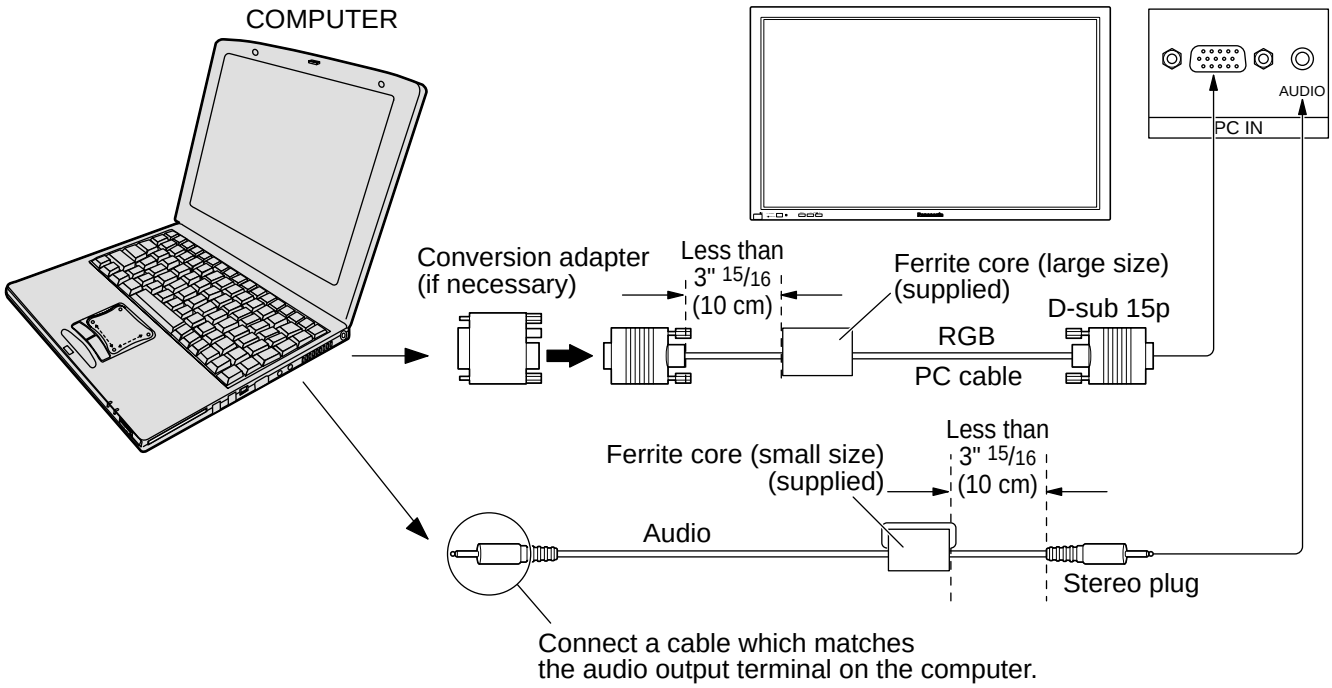


From EXIT monitor terminal on Computer (see page 10)

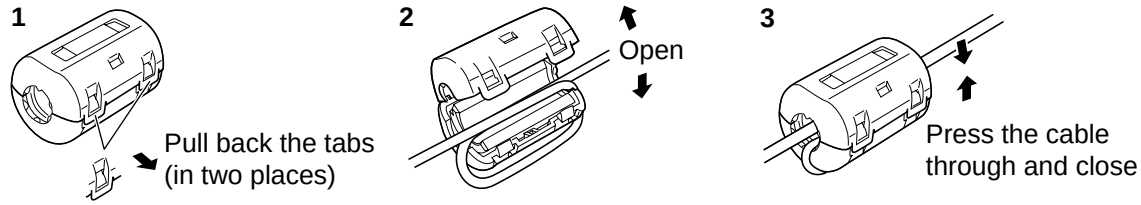
From SERIAL Terminal on Computer (see page 12)

PC Input Terminals connection

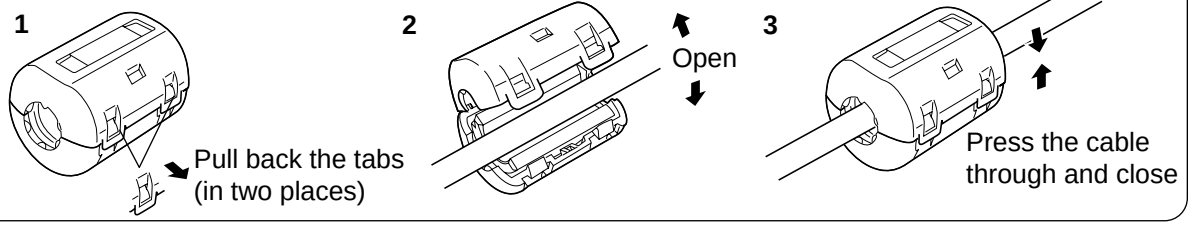
If tuner is connected the PC connection is disabled.



Installing the ferrite core (Small size)



Installing the ferrite core (Large size)



Notes:

(1) Computer signals which can be input are those with a horizontal scanning frequency of 15.6 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)

(2) The display resolution is a maximum of 640 × 480 dots when the aspect mode is set to “4:3”, and 852 × 480 dots when the aspect mode is set to “16:9”. If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

(3) The PC input terminals are DDC1/2B-compatible. If the computer being connected is not DDC1/2B-compatible, you will need to make setting changes to the computer at the time of connection.

(4) Some PC models cannot be connected to the set.

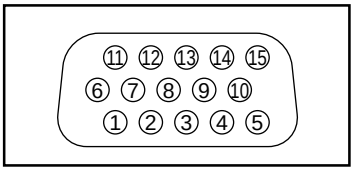
(5) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.

(6) The computer shown in the illustration is for example purposes only.

(7) Additional equipment and cables shown are not supplied with this set.

(8) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

Signal Names for D-sub 15P Connector



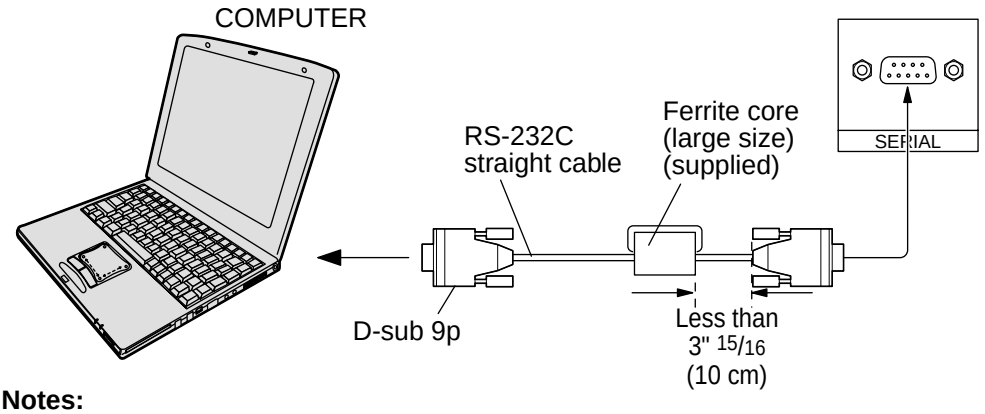
Pin Layout for PC Input Terminal

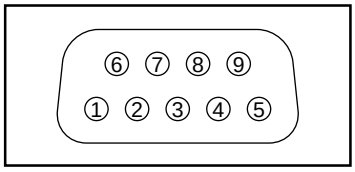
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	GND (Ground)
②	G	⑦	GND (Ground)	⑫	SDA
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	GND (Ground)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	SCL

SERIAL Terminals connection

If tuner is connected the SERIAL connection is disabled.

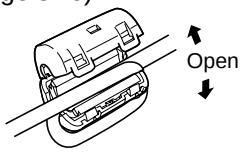
The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for RS-232C

Installing the ferrite core
(Large size)



Notes:

(1) Use the RS-232C cable to connect the computer to the Plasma Display.
(2) The computer shown is for example purposes only.
(3) Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

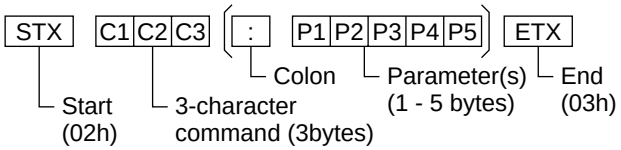
Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	–

RS-232C Conversion cable	
D-sub 9-pin female	Details
②	R X D
③	T X D
⑤	GND
④ ⑥	Non use
⑦ ⑧	Shorted
① • ⑨	NC

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

(1) If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
(2) If an incorrect command is sent by mistake, this unit will send an “ER401” command back to the computer.

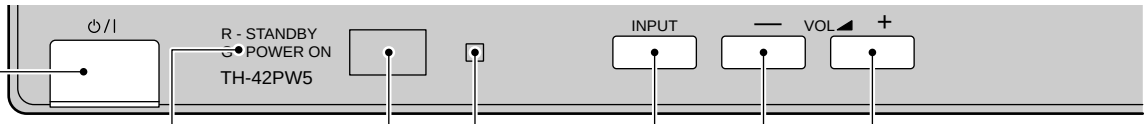
Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio mute OFF
	1	Audio mute ON
IIS (When Used RCA Terminal Board)	None	Input select (toggle)
	VID	AV Mode
	YP1	Component / RGB mode (processed as a $Y/P_B/P_R$ or RGB signals as set by this unit)
	RG1	PC Mode
DAM	None	Screen mode select (toggle)
	NORM	4 : 3
	ZOOM	Zoom
	FULL	16 : 9
	JUST	Just
	SELF	Panasonic Auto

With the power off, this display responds to PON command only.

Basic Controls

Explanations from here onward describe the functions when the optional RCA Terminal Board is installed.



Main Power On/Off Switch

Power Indicator
The Power Indicator will light.
- Power-OFF .. Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet.)
- Stand-by ⏻ ..... Red
- Power-ON ..... Green

Remote control sensor

INPUT button (AV(S Video), Component/RGB and PC Mode Selection) (see page 15)

Volume Adjustment
Press the Volume Up "+" or Down "–" button to increase or decrease the sound volume level.

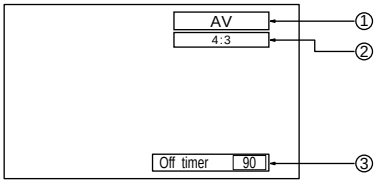
C.A.T.S sensor
Plasma C.A.T.S (Contrast Automatic Tracking System)
Plasma C.A.T.S automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly,to optimise contrast.
(Effective when Picture mode is set to Auto.)

Stand-by (ON/OFF) button
The Plasma Display must first be plugged into the wall outlet and turnded on at the power switch. (see page 14)
Press this button to turn the Plasma Display On, from Standby mode. Press it again to turn the Plasma Display Off to Standby mode.

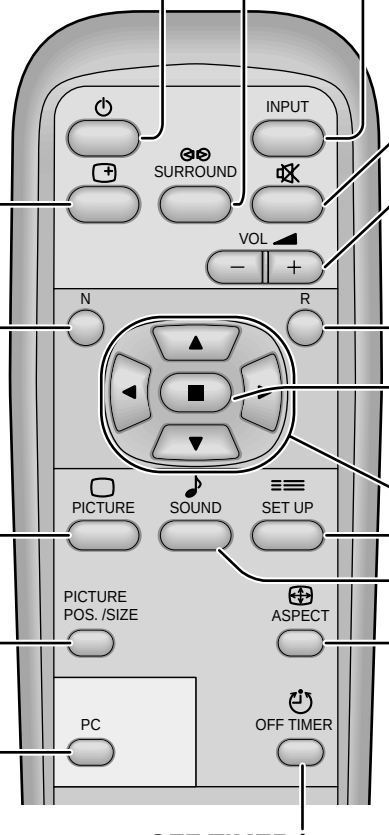
SURROUND button (see page 23)

INPUT button
AV(S Video), Component/RGB and PC Mode Selection)
Press to select AV(S Video), Component/RGB and PC input signal modes sequentially. (see page 15)

Status button
Press the "Status" Button to display the current system status.



① AV(S Video), Component/RGB, PC mode
② Aspect mode (see page 18)
③ Off timer
The off timer indicator is displayed only when the off timer has been set.



Sound mute On/Off (see page 22)

Volume Adjustment
Press the Volume Up "+" or Down "–" Button to increase or decrease the sound volume level.

R button (see page 17)

ACTION button
Press to make selections

N button
(see page 21, 22, 24, 25)

POSITION buttons

SET UP button (see page 16)

PICTURE button
(see page 24)

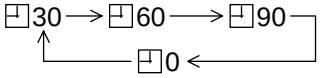
SOUND button (see page 22)

PICTURE POS./SIZE button
(see page 20)

ASPECT button
Press to adjust the aspect. (see page 18)

PC button
Press the "PC" mode selection button to select the PC mode. This button is used to switch directly to PC mode.

OFF TIMER button
The Plasma Display can be preset to switch to stand-by after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.

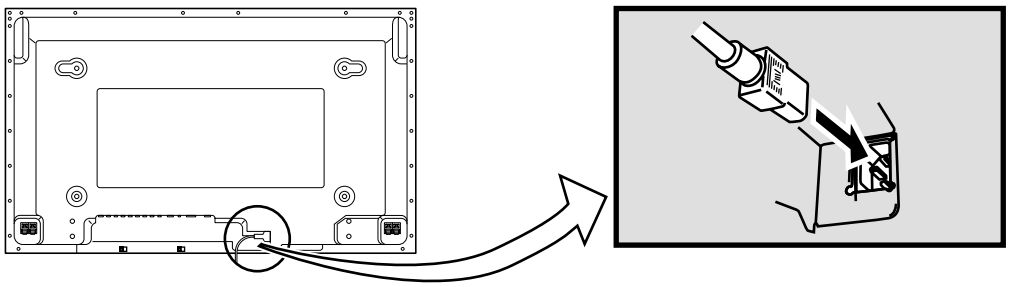


When three minutes remain, "Off timer 3" will flash.
The off timer is cancelled if a power interruption occurs.

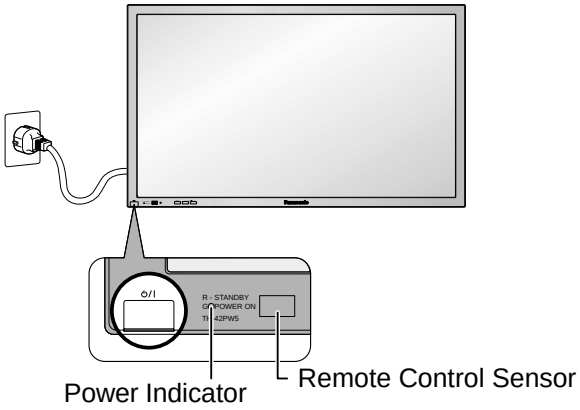
Power On/Off and input signal selection

AC cord connection

Connecting the AC cord plug to the Plasma Display.



Power On/Off



Connecting the plug to the Wall Outlet
Note:
Main plug types vary between countries. The power plug shown at left may, therefore, not be the type fitted to your set.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green

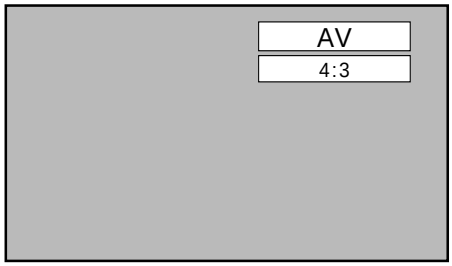
Example: The screen below is displayed for a while after the Plasma Display is turned on. (setting condition is an example.)

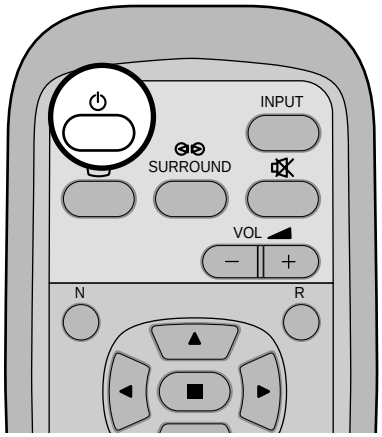
When the Power is turned on for the first time, the Language selection screen is displayed.

From the second time on, language selection can be done from the setup menu. (see page 15)

Select the desired language using the ▲ and ▼ keys and press the ACTION ⊂■⊃ button.

From the second time on, the below screen is displayed for a while (setting condition is an example).





Press the ⏻ button on the remote control to turn the Plasma Display off.

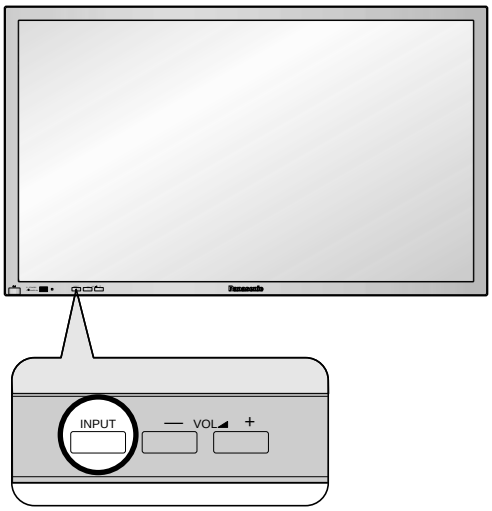
Power Indicator: Red (standby)

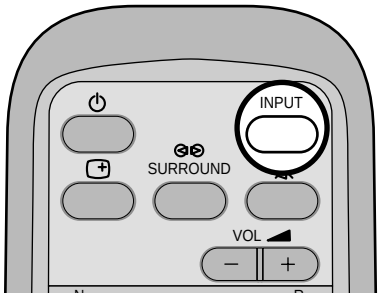
Press the ⏻ button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display set off by pressing the ⏻ switch on the Plasma Display, when the Plasma Display is on or in standby mode.

Select the input signal





Press the INPUT button to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Select the input signals to be connected by installing the optional Terminal Board.
(see page 32)

Input signals will change as follows:

For Component Input

→ AV → Component → PC →

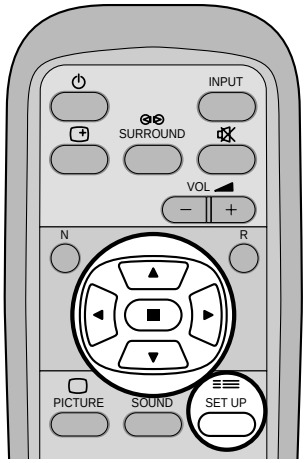
For RGB Input

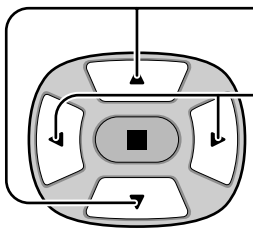
→ AV → RGB → PC →

Note:
Input buttons do not work if no optional Terminal Board is installed.

Selecting the On-Screen Menu Language

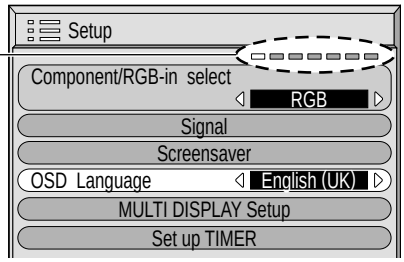
Press to display the Set Up menu.





Press to select the OSD Language.

Press to select your preferred language.

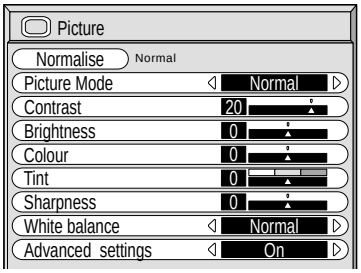


Selectable languages

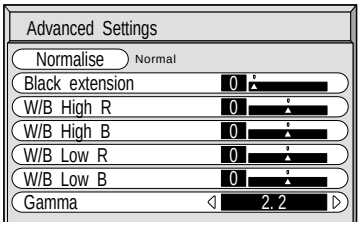
English(UK)
Deutsch
Français
Italiano
Español
ENGLISH(US)
中文 ·····(Chinese)

On-Screen Menu Display from Remote Control

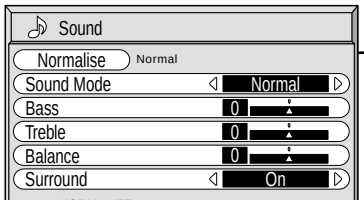
To Picture adjust menu
(see page 24)



To Advanced Settings
(see page 24, 25)

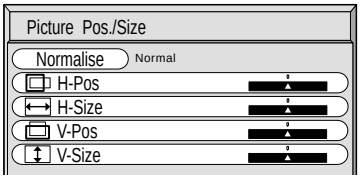


To Sound adjust menu
(see page 22)

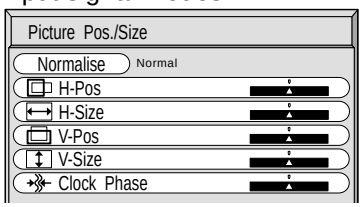


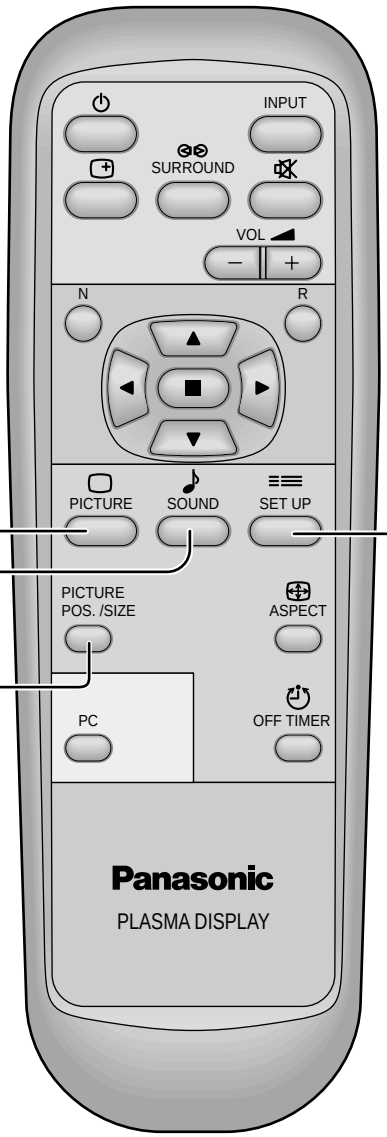
To Picture Pos./Size adjust menu
(see page 20)

During “AV(S Video)” and “Component” input signal modes.

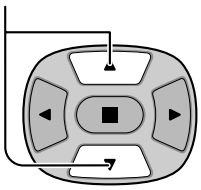


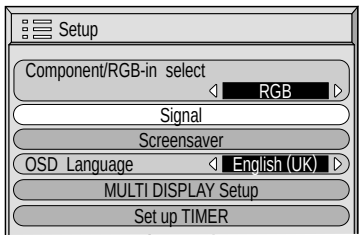
During “RGB” and “PC” input signal modes.

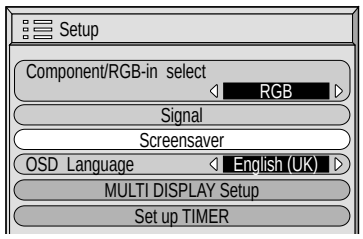


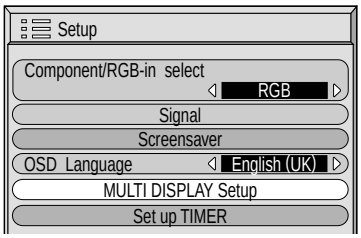


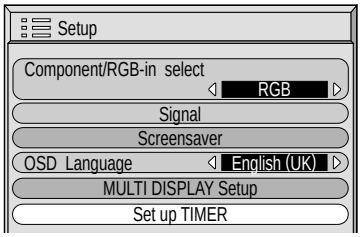
Press to select each item.

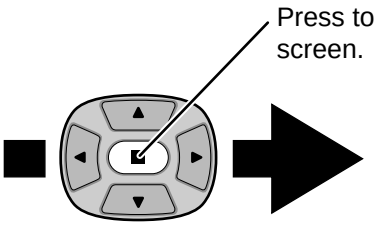


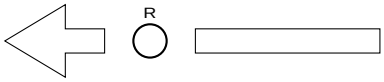






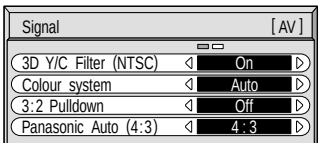






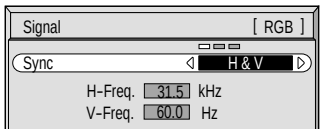
Press the R buttun to return to "Setup" menu.

To Signal screen for AV (see page 32, 33)

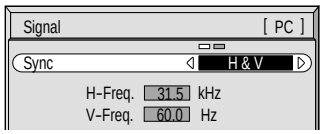


To Signal screen for Component (see page 33)

To Signal screen for RGB (see page 34)

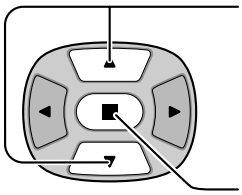


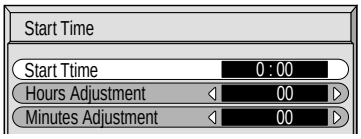
To Signal screen for PC (see page 34)

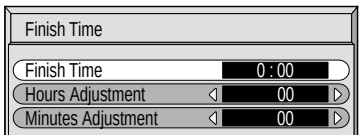


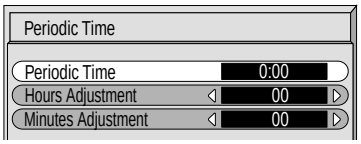
Note:
"Signal" setup menu displays different setting condition for each input signals. (see page 15)

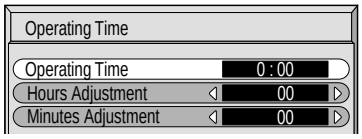
To setup Screensaver (see page 28)

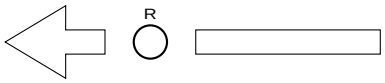






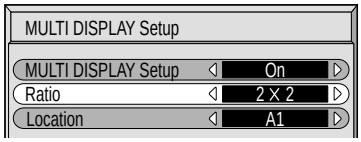




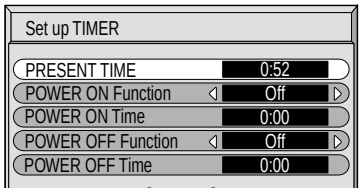


Press the R buttun to return to "Screensaver" menu.

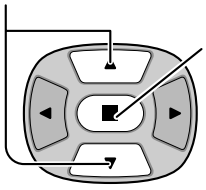
To setup Multidisplay screen (see page 30)

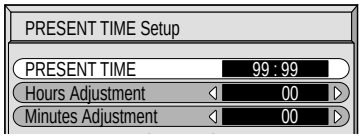


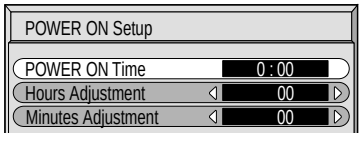
To Set up Timer selection screen (see page 26)

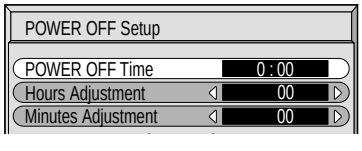


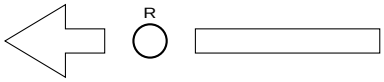
Press to select each Timer adjustment items.







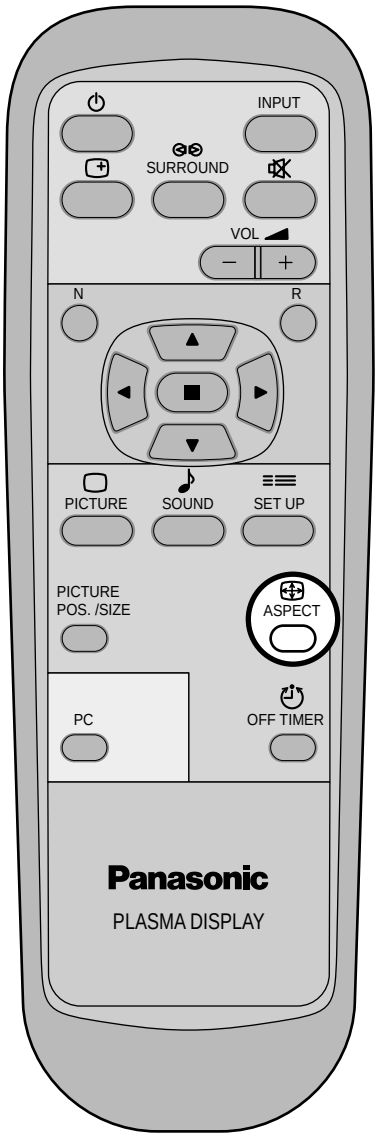




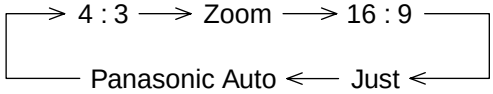
Press the R buttun to return to "Setup" menu.

ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.



ASPECT button
The aspect mode changes each time the ASPECT button is pressed.



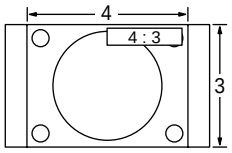
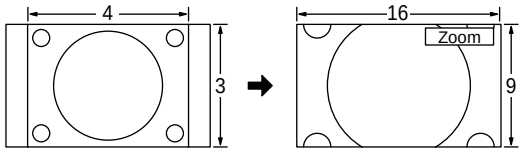
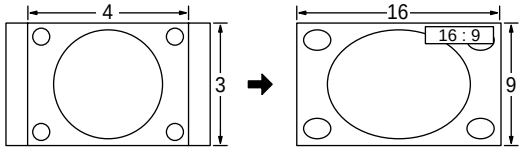
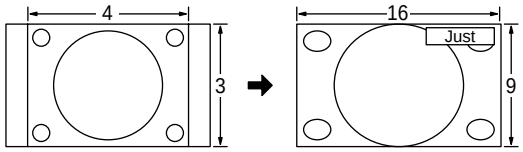
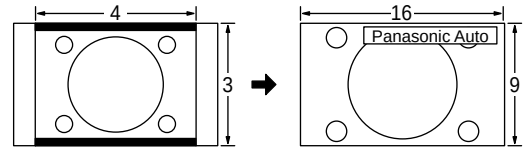
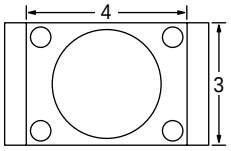
Notes:

(1) During RGB and PC input signal modes, the mode switches between “4:3”, “Zoom” and “16:9” only.

(2) For a 525p (480p) signal input during “Component” input signal mode, the mode switches between “Zoom” and “16:9” only.

(3) For a 1,125i (1,080i), 750p (720p) signal input during “Component” input signal mode, the mode is set to “16:9” mode, and switching is not possible.
For a 525i (480i), 625i (575i) signal input during “Component” input signal mode, “Panasonic Auto” can not be selected.

(4) The aspect mode is memorized separately for each input terminal (AV, Component, RGB and PC).

Mode	Picture	Explanation
4 : 3		4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom		Zoom mode magnifies the central section of the picture.
16 : 9		16:9 will display the picture at its maximum size but with sight elongation.
Just		Just mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic Auto	 For an elongated image Image is expanded  For a 4:3 image Changes in accordance with the Panasonic Auto mode setting (see page 33).	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. **Note:** Panasonic Auto mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3.

Note:

- Do not allow the picture displayed in 4:3 mode for an extended period, as this can cause a parmanent after-image to remain on the Plasma Display Panel.

Adjusting Picture Pos./Size

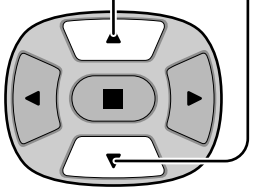
Adjusting screen

1

PICTURE POS. /SIZE

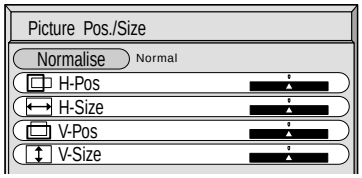
Press to display the Picture Pos./Size menu.

2

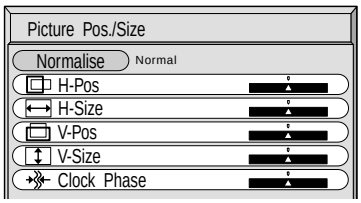


Press to select H-Pos/H-Size/V-Pos/V-Size/Clock Phase.

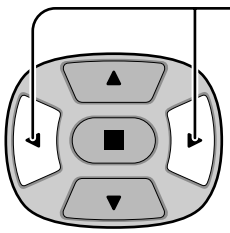
During “AV(S Video)” and “Component” input signal modes.



During “RGB” and “PC” input signal modes.



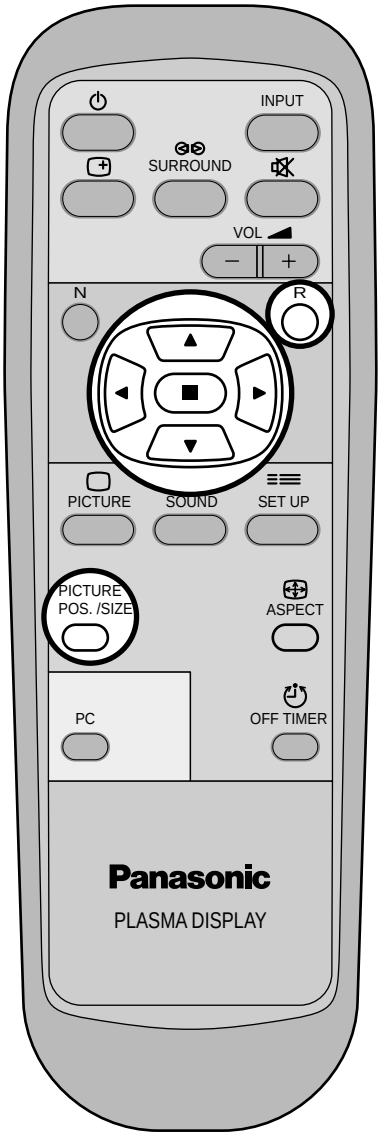
3



Press to adjust Pos./Size.

R

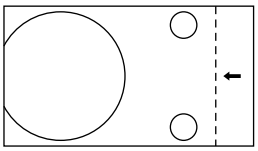
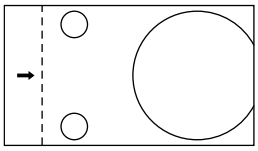
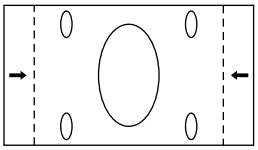
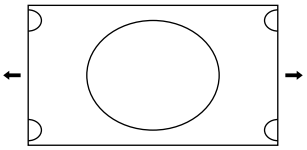
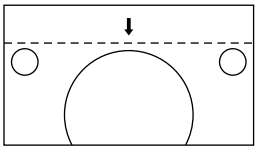
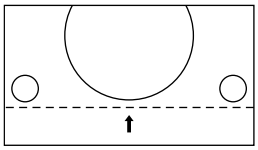
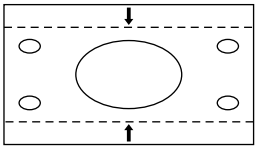
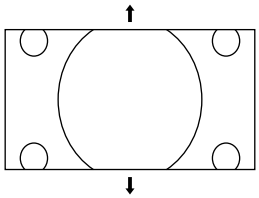
Press to exit from adjust mode.



Notes:

(1) Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525i (480i), 625i (575i), 525p (480p), 1,125i (1,080i) and 625p (575p), 750p (720p) each, and RGB/PC signals are memorized for each frequency.)

(2) If a “Cue” or “Rew” signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the Picture Pos./Size function.

H-Pos	When the Position Left "◄" button is pressed. 	When the Position Right "►" button is pressed. 
H-Size	When the Position Left "◄" button is pressed. 	When the Position Right "►" button is pressed. 
V-Pos	When the Position Left "◄" button is pressed. 	When the Position Right "►" button is pressed. 
V-Size	When the Position Left "◄" button is pressed. 	When the Position Right "►" button is pressed. 
Clock Phase (RGB/PC in Mode)	Flickering and distortion can be eliminated by using the Position Left "◄" or Right "►" button to carry out adjustment.	

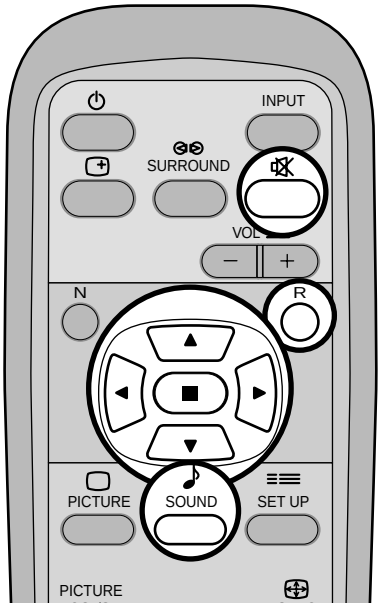
Helpful Hint (N / Normalise Normalisation)

While the Picture Pos./Size display is active, if either the N button on the remote control is pressed at any time or the ⊙ (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

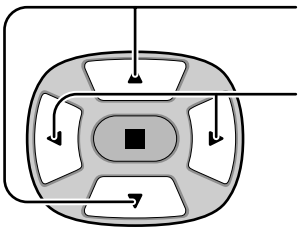
Sound Adjustment

1 SOUND

Press to display the Sound menu.



2 Select to adjust each item.



Press to select the desired adjustment menu.

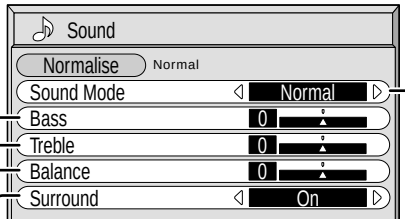
Select the desired level by listening to the sound.

Bass
Adjusts low sounds

Treble
Adjusts high sounds

Balance
Adjusts left and right volumes

Surround (see next page)
Select On or Off



Normal — Emits the original sound.

Auto — Automatically controls proper volume level.

- To end adjustments

R

Press the R button

Note:
Press the SURROUND button to directly turn the surround effect On and Off. (see next page)
Bass, Treble and Surround settings are memorized separately for each Sound mode (Normal, Auto).

Helpful Hint (N / Normalise Normalisation)

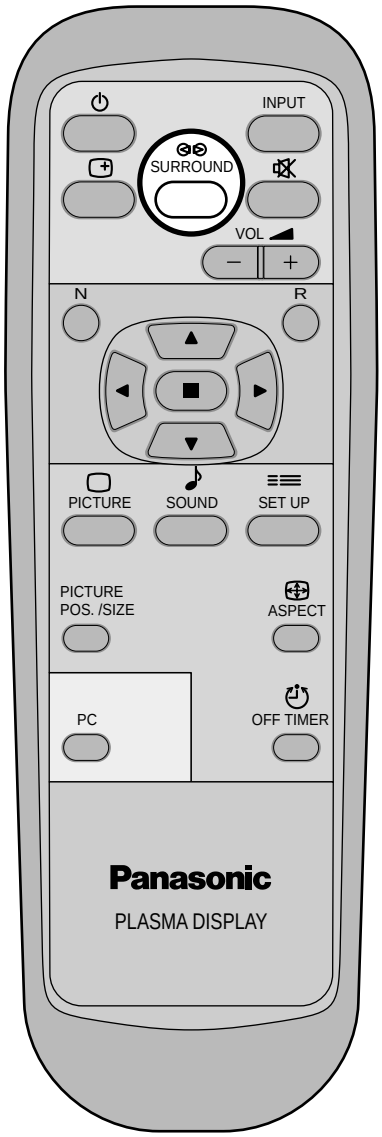
While the “Sound” menu is displayed, if either the N button on the remote control is pressed at any time or the ⊙ (ACTION button) is pressed during “Normalise”, then all adjustment values are returned to the factory settings.

Mute

Useful when answering the phone or receiving unexpected visitors.

Press this button to mute the sound.
Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

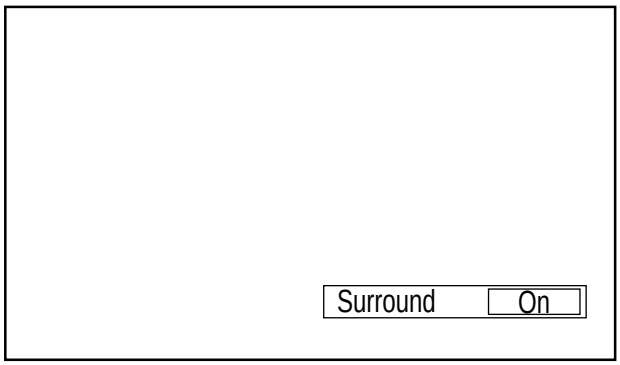
Surround Controls



SURROUND Button
The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround setting switches on and off each time the SURROUND button is pressed.

On ⟷ Off

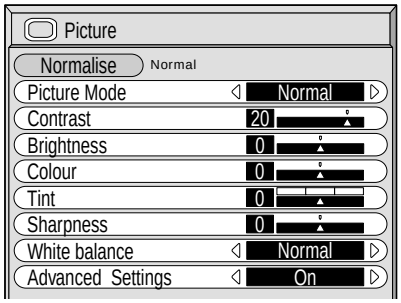


Note:
The surround settings are memorized separately for each Sound mode (Normal, Auto).

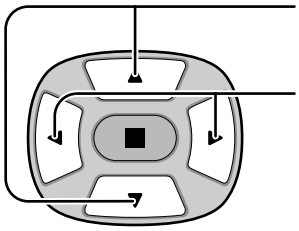
Picture Adjustments

1 PICTURE

Press to display the Picture menu.

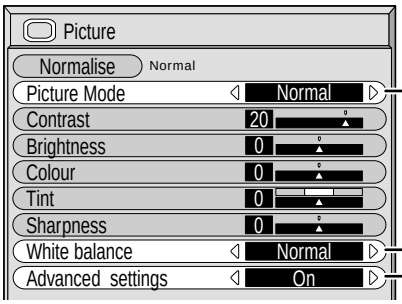


2 Select to adjust each item.



Press to select the menu to adjust.

Select the desired level by looking at the picture behind the menu.



Press the left ◄ or right ► button to switch between modes.

Auto ⟷ Normal

Cinema ⟷ Dynamic

Auto
Automatically selects the mode that best suits the brightness of the environment.

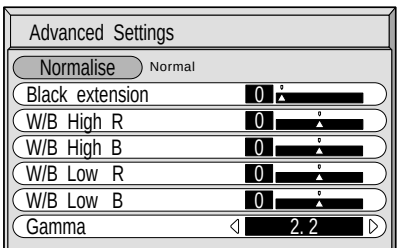
Normal
For viewing in standard (evening lighting) environments.
This menu selects the normal levels of Brightness and Contrast.

Dynamic
For viewing in brighter environments.
This menu selects higher than normal levels of Brightness and Contrast.

Cinema
Ideal for movies.
- Can be selected for AV/Component.

Note:
If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see next page)

Press the left ◄ or right ► button to select “On”. Press the down ▼ button to enter Advanced Settings mode.
Advanced Settings On
Enables fine picture adjustment at a professional level (see next page).



Advanced Settings Off
Displays images with settings of the Picture menu.

Press the left ◄ or right ► button to switch between modes.

Normal ⟷ Cool ⟷ Warm

Helpful Hint (N / Normalise Normalisation)

While the “Picture” menu is displayed, if either the N button on the remote control is pressed at any time or the ■ (ACTION button) is pressed during “Normalise”, then all adjustment values are returned to the factory settings.

Item	Effect	Adjustments
Contrast	◀ Less ▶ More	Selects the proper brightness and density for the room.
Brightness	◀ Darker ▶ Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
Colour	◀ Less ▶ More	Adjusts colour saturation.
Tint (NTSC only)	◀ Reddish ▶ Greenish	Adjust for nice skin colour.
Sharpness	◀ Less ▶ More	Adjusts picture sharpness.

Notes:
(1) "Colour" and "Tint" settings cannot be adjusted for "RGB" and "PC" input signal modes.
(2) You can change the level of each function (Contrast, Brightness, Colour, Tint, Sharpness) for each Picture menu.
(3) The setting details for normal, dynamic and cinema respectively are memorized separately for each input mode (AV(S Video), Component, RGB and PC).
(4) The "Tint" setting can be adjusted for NTSC signal only during "AV (S Video)" input signal.

Note:
In picture adjustment mode, bright pictures may not show any noticeable change when contrast is increased. Likewise, dark pictures will show little change when contrast is reduced.

Advanced Settings

Item	Effect	Details
Black extension	◀ Less ▶ More	Adjusts the dark shades of the image in gradiation.
W/B High R	◀ Less ▶ More	Adjusts the white balance for light red areas.
W/B High B	◀ Less ▶ More	Adjusts the white balance for light blue areas.
W/B Low R	◀ Less ▶ More	Adjusts the white balance for dark red areas.
W/B Low B	◀ Less ▶ More	Adjusts the white balance for dark blue areas.
Gamma	◀ Down ▶ Up	2.0 ⟷ 2.2 ⟷ 2.5

Notes:
(1) Carry out "W/B" adjustment as follows.
Ⓐ Adjust the white balance of the bright sections using the "W/B High R" and "W/B High B" settings.
Ⓑ Adjust the white balance of the dark sections using the "W/B Low R" and "W/B Low B" settings.
Ⓒ Repeat steps Ⓐ and Ⓑ to adjust.
Steps Ⓐ and Ⓑ affect each other's settings, so repeat each step in turn to make the adjustment.
(2) The adjustment values are memorized separately for each input mode (AV(S Video), Component, RGB and PC).
(3) The adjustment range values should be used as an adjustment reference.

Helpful Hint (N / Normalise Normalisation)

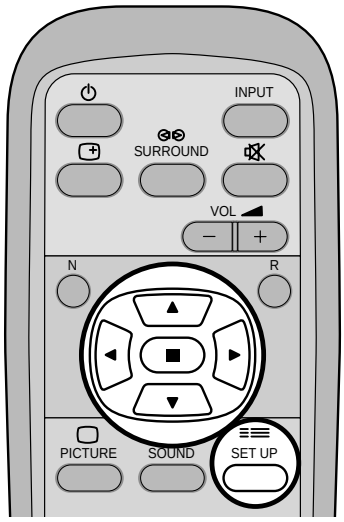
On the remote control unit, while the "Advanced settings" menu is displayed, if either the N button is pressed at any time or the ■ (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Set up TIMER

The timer can switch the Plasma Display On or Off.

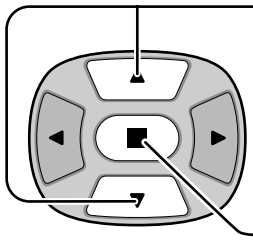
Before attempting Timer Set, confirm the PRESENT TIME and adjust if necessary.
Then set POWER ON Time / POWER OFF Time.

Display the Set up TIMER screen



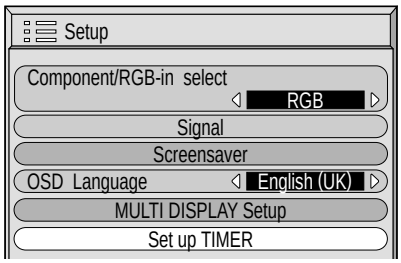
1 SET UP

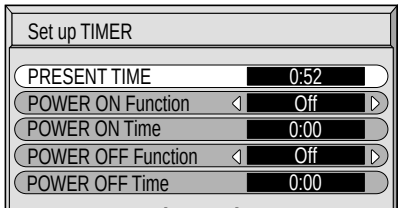
Press to display the Setup menu screen.



2 Press to select Set up TIMER.

Press to display the Set up TIMER screen.

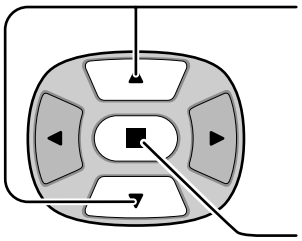




PRESENT TIME Set

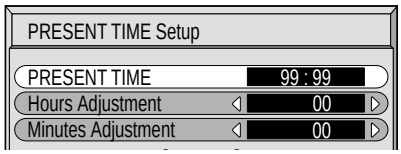
To set up PRESENT TIME, follow the procedure described below.

1

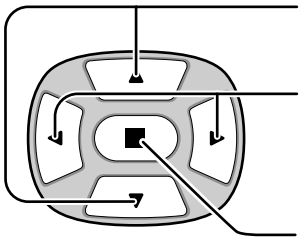


Press to select PRESENT TIME.

Press to display the PRESENT TIME Setting screen.



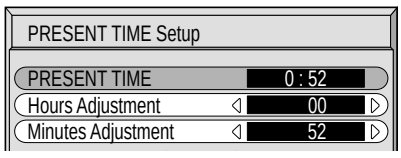
2



Press to select Hours Adjustment / Minutes Adjustment.

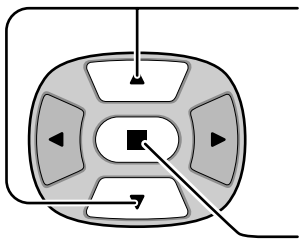
Press to set up Hours or Minutes.
► button: Forward
◄ button: Back

Press to store PRESENT TIME Setup.



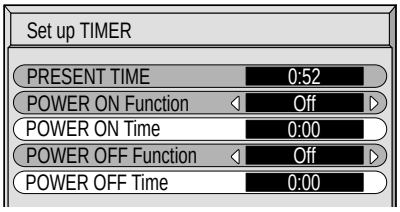
TIMER Set

1

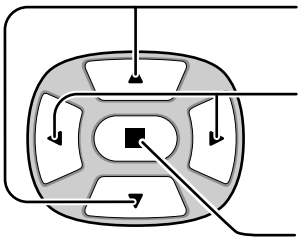


Press to select
POWER ON Time / POWER OFF Time.

Press to display the POWER ON Setup / POWER OFF Setup screen.



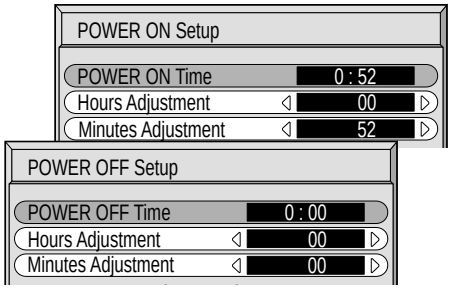
2



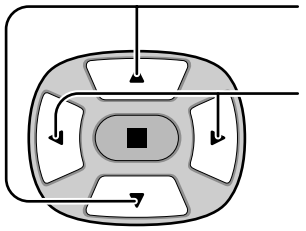
Press to select Hours Adjustment/ Minutes Adjustment.

Press to adjust each time.

Press to complete POWER ON Time / POWER OFF Time.

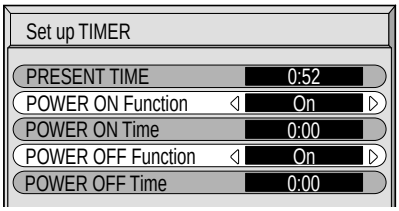


3

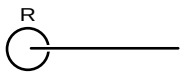


Press to select POWER ON Function/ POWER OFF Function.

Press to select On.



4



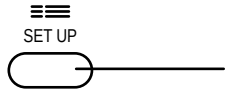
Press twice to exit from Setup.

Note:
Timer function will not work unless “PRESENT TIME” is set.

Screensaver (For preventing after-images)

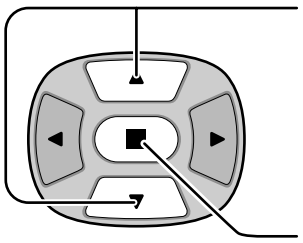
Do not display a still picture, especially in 4:3 mode, for any length of time.
If the display must remain on, a Screensaver should be used.

1



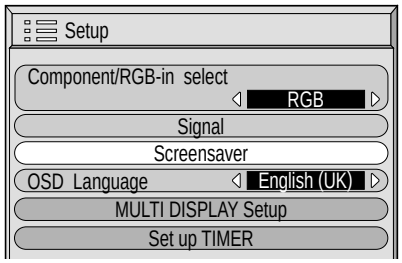
Press to display the Setup menu screen.

2



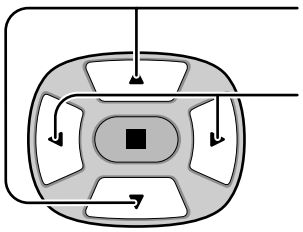
Press to select the Screensaver.

Press to select the Screensaver screen.



Reversal / Scroll selection

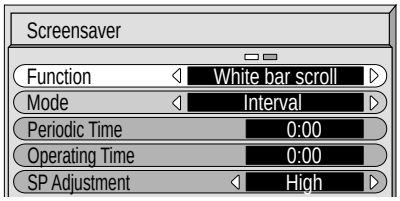
3



Press to select the Function.

Press to select the desired function.

White bar scroll ⟷ Image Reversal

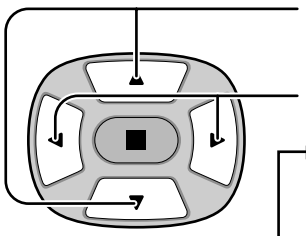


White bar scroll : The white bar will scroll from left to right.

Image Reversal : Negative image will be displayed on the screen.

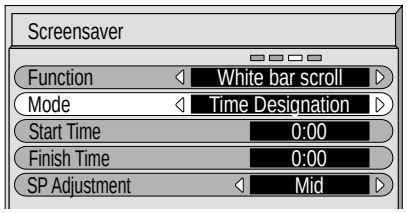
Mode selection

4



Press to select the Mode.

Press to select each mode items.



Off

↕

Interval : Operates when Periodic Time and Operating Time are setup and those times arrive.

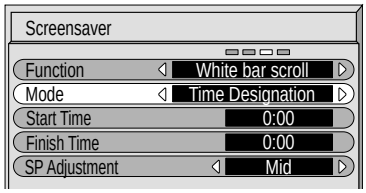
↕

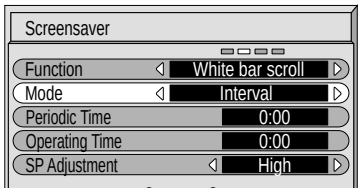
Time Designation : Operates when Start Time and Finish Time are setup and those times arrive.

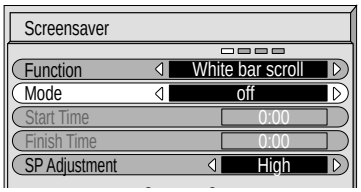
↕

On : Operates when the ⊙ (ACTION) is pressed.
If the Mode is at On, the menu screen will disappear and the Screensaver will be activated.
To stop the Screensaver under On, press the ○R button.

After selecting Time Designation or Interval, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when “Mode” is “on” or “off.”)

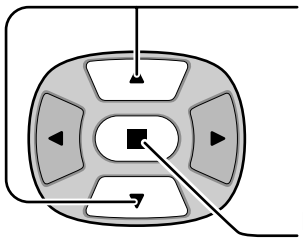






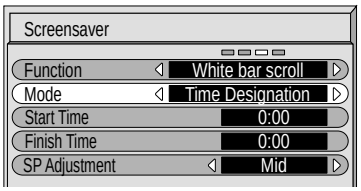
Setup of Screensaver Time

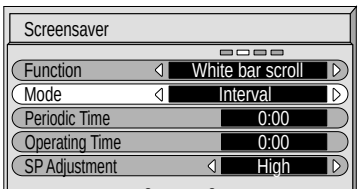
5

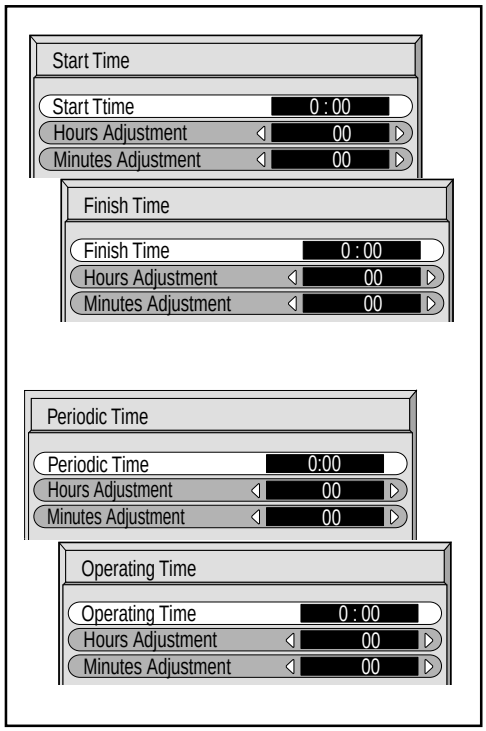


Press to select Start Time/ Finish Time (When Time Designation is selected).
Press to select Periodic Time/ Operating Time (When Interval is selected).

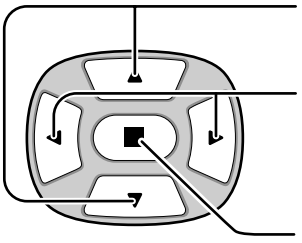
Press to select each Time Adjustment screen.







6



Press to select Hours Adjustment/ Minutes Adjustment.

Press to Setup Hours or Minutes.

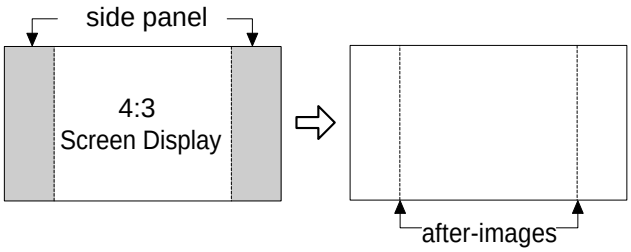
► button: Forward
◄ button: Back

Press to store settings.

Note: Timer function will not work unless “PRESENT TIME” is set.

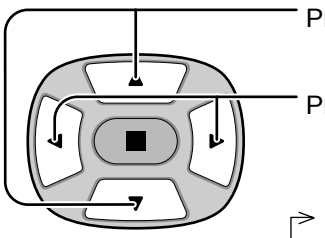
Side Panel Adjustment

Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on the side panels either side of the display field.
To prevent the appearance of such an after-image, illuminate the side panels.



1 To display the Screensaver screen. (Refer to the previous page, operation guide steps 1 and 2)

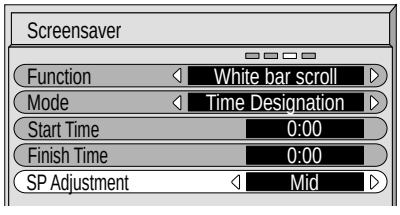
2



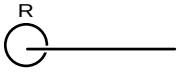
Press to select the SP Adjustment.

Press to select Off, Low, Mid, High.

Off ⟷ Low ⟷ Mid ⟷ High



3



Press to exit from Screensaver.

Notes:
- Setting the side panel to High mode for an extended period may result in occurrence of after-images.
- The side panels may flash (alternate black/white) depending on the picture being shown on the screen. In such an occurrence, use the Cinema mode.

Setup for MULTI DISPLAY

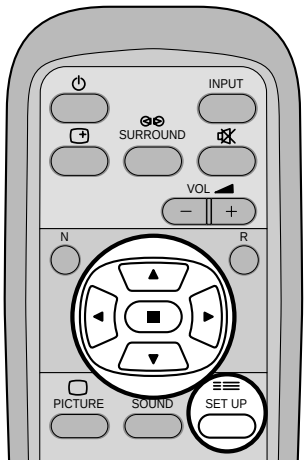
① By lining up Plasma Displays in groups of 4 or 9 as illustrated below, an enlarged picture may be displayed across all screens.

② For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

group of 4 (2×2)

group of 9 (3×3)

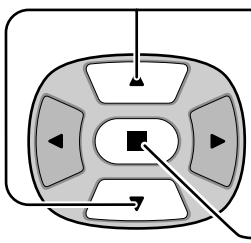
How to Setup MULTI DISPLAY



1 SET UP

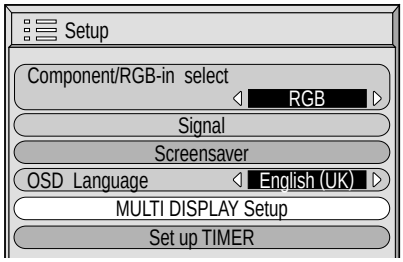
Press to display the Setup menu screen.

2

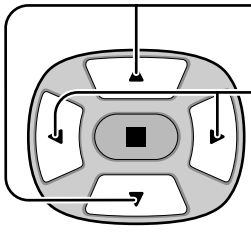


Press to select the MULTI DISPLAY Setup.

Press to display the "MULTI DISPLAY Setup" menu.

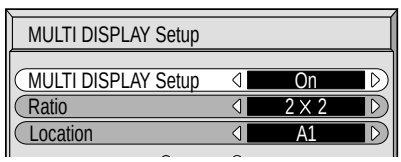


3



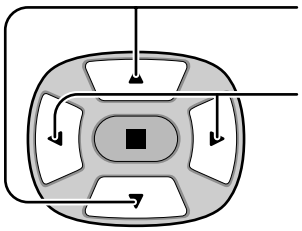
Press to select the MULTI DISPLAY Setup.

Press to select "On" or "Off".



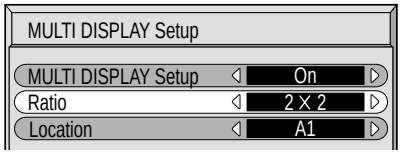
How to set the display location number for each Plasma Display

4

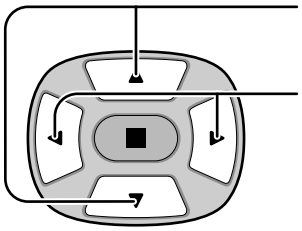


Press to select Ratio (2nd step).

Press to select “2×2”, “3×3”.

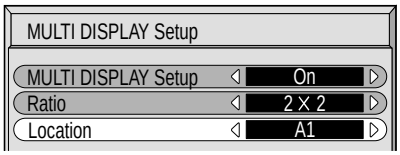


5



Press to select Location.

Press to select the required arrangement number. (A1-C3 : Refer to the following)

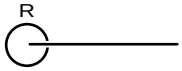


Display Number locations for each arrangement

A1	A2
B1	B2

A1	A2	A3
B1	B2	B3
C1	C2	C3

6



Press twice to exit from Setup.

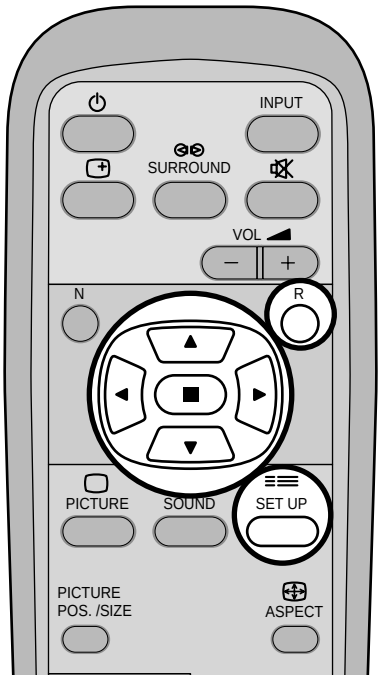
Notes:

(1) For PC or RGB input signals, normal multi-display magnification is only available at the VGA resolution.
(2) The multi-display capability is not functional for component signals.
(3) The MultiDisplay (multiskærmdisplay) function does not display certain input signals from the terminals of the installed option boards listed below:
• Component input signals from the scart and RCA terminals of scart terminal board (TY-37TM5TB or TY-42TM5TB)

Setup for Input Signals

Component/RGB-in Select

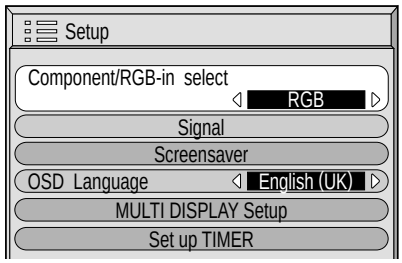
Select the input signals to be connected by installing the Optional Terminal Board.
(Refer to the service manual for the optional Terminal Board.)
Select to match the signals from the source connected to the Component/RGB input terminals.
Y, P_B, P_R signals ⇨ "Component"
R, G, B, HD, VD signals ⇨ "RGB"



1 SET UP — Press to display the Setup menu screen.

2 Press to select the "Component/RGB-in Select".

Press to select the desired mode.



Component ⟷ RGB

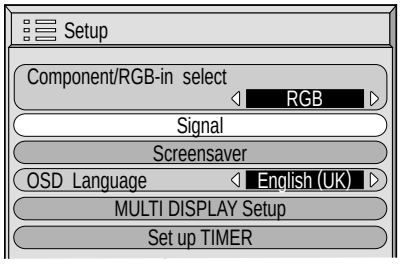
R — Press to exit from adjust mode.

3D Y/C Filter – For NTSC AV images

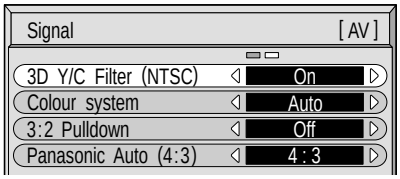
Select "Signal" from the "Setup" menu during AV(S Video) input signal mode. ("Signal [AV]" menu is displayed.)

Press to select the "3D Y/C Filter (NTSC)"

Press to set On/Off.



⇩ Press ● (ACTION) button

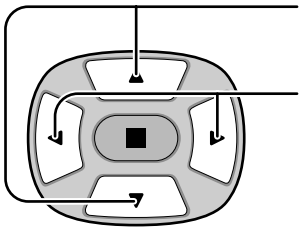


R — Press to exit from adjust mode.

Notes:
(1) When On, this setting only affects NTSC input signals.
(2) 3D Y/C Filter does not operate by input signal from Scart Terminal.
With the optional Scart/Component Terminal Board installed, 3D Y/C Filter does not operate by input signal from Scart Terminal of the board.

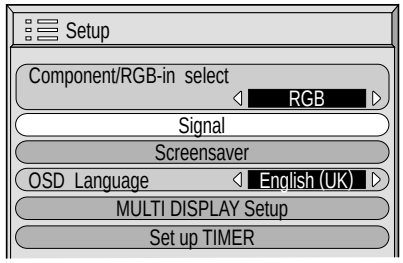
Colour system / Panasonic Auto

Select Signal from the “Setup” menu during AV(S Video) input signal mode.(“Signal [AV]” menu is displayed.)



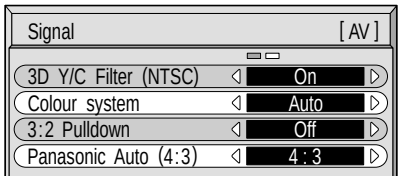
Press to select the “Colour System” or “Panasonic Auto”.

Press to select each functions.



⇩ Press ● (ACTION) button

If the picture image becomes unstable:
With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

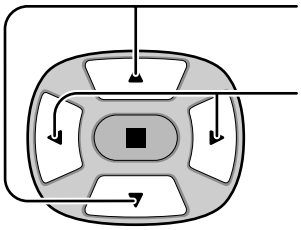


Mode	Function
Colour system	Set the colour system to match the input signal. If set to “Auto”, the colour system is determined automatically. →Auto ←→PAL ←→ SECAM ←→M.NTSC ←→NTSC←
Panasonic Auto (4:3)	Set to “4 : 3” to view 4:3 images in an unchanged format when Panasonic Auto is selected. If you would like to view 4:3 images in “Just” format, set to “Just”.

3:2 Pulldown

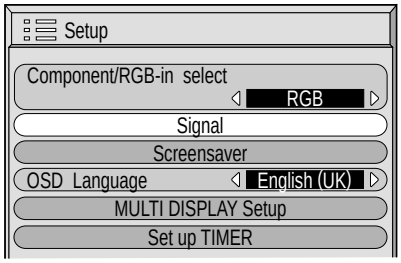
When on, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.
If the picture is not stable, turn the setting to off.

Select “Signal” from the “Setup” menu during AV(S Video) or Component input signal mode.(“Signal [AV]” menu is displayed.)



Press to select 3:2 Pulldown.

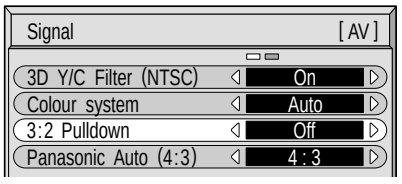
Press to set On/Off.

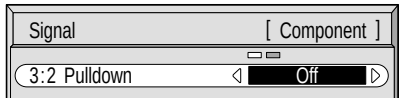


⇩ Press ● (ACTION) button

Note:
When On, this setting only affects the following signal input.

- NTSC signal input during “AV(S Video)” input signal mode.
- 525i(480i) signal input during “Component” input signal mode.



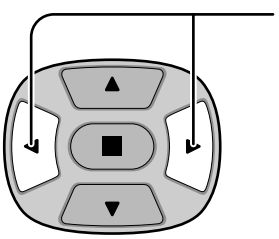


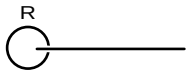
R

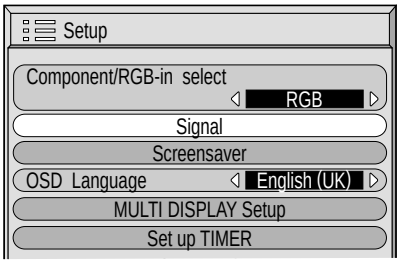
Press to exit from adjust mode.

Sync

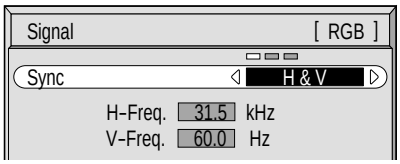
Select Signal from the “Setup” menu during RGB or PC input signal mode.

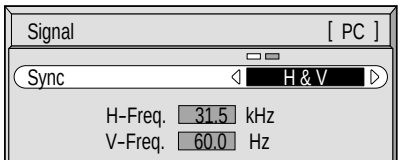






Press ● (ACTION) button

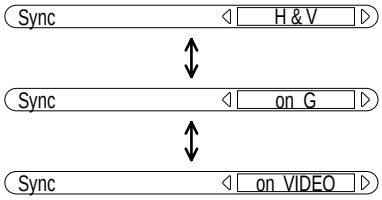




Setting RGB sync signal:

Confirm that the input is set to RGB input (this setting is valid only for RGB input).

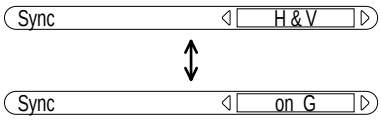
- H & V: The H and V sync signals are input from the HD/VD connector.
- on G: Uses a synchronized signal on the Video G signal, which is input from the G connector.
- on VIDEO: Compatible with the scart plug (Europe)
  The composite video signal input from the VIDEO input terminal is used by dividing the sync signals.



Setting PC sync signal:

Confirm that the input is set to PC input (this setting is valid only for PC input).

- H & V: The H and V sync signals are input from the HD/VD connector.
- on G: Uses a synchronized signal on the Video G signal, which is input from the G connector.

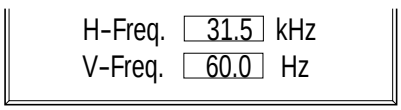


H-Freq. (kHz)/V-Freq. (Hz)

Displays the H (Horizontal)/V (Vertical) frequencies.

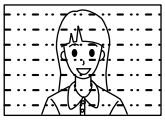
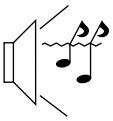
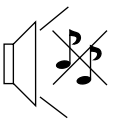
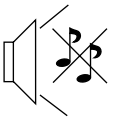
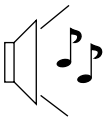
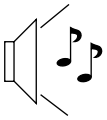
This display is valid only for RGB input and PC input.
Display range:

- Horizontal 15.6 - 110 kHz
- Vertical 48 - 120 Hz



Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	**Sound**	
 Interference	 Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent light
Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the remote control.)
No Picture	 No Sound	Not plugged into AC outlet Not switched on Picture and Brightness/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
No Picture	 Normal Sound	If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.
No Colour	 Normal Sound	Colour controls set at minimum level (see page 24, 25) Colour system (see page 33)

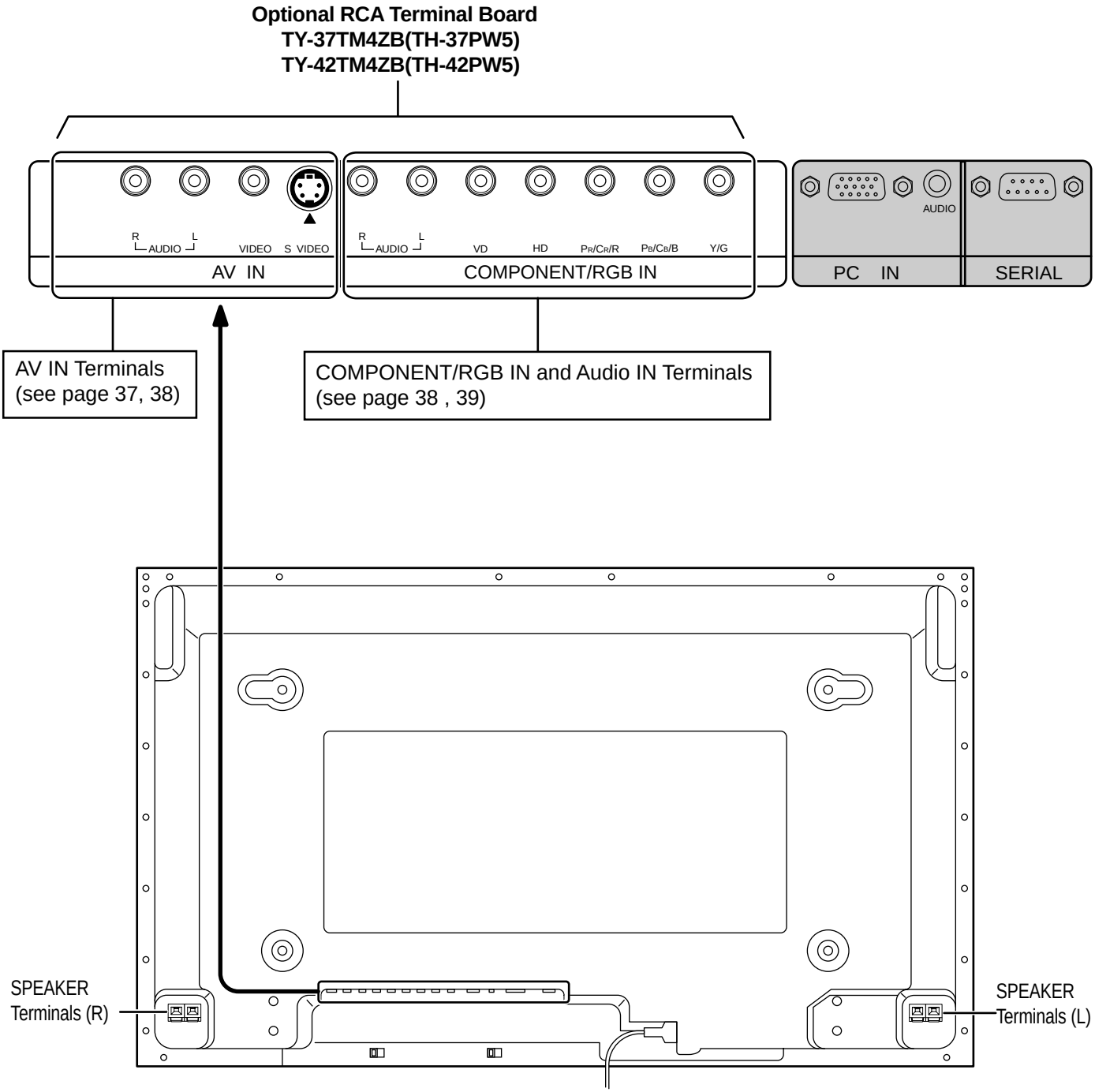
Plasma Display panel

Symptoms	Check
Some parts of the screen do not light up	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
After-images appear	Do not allow a still picture or any part of a still picture i.e. edges to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. **Note:** The permanent after-image on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.

Connections

Connection to the Optional Terminal Board

By installing the optional RCA Terminal Board, the Plasma Display can handle high quality input signals such as AV (S Video), DVD, and RGB. Below is the connecting method when the optional RCA Terminal Board is installed.



Notes:

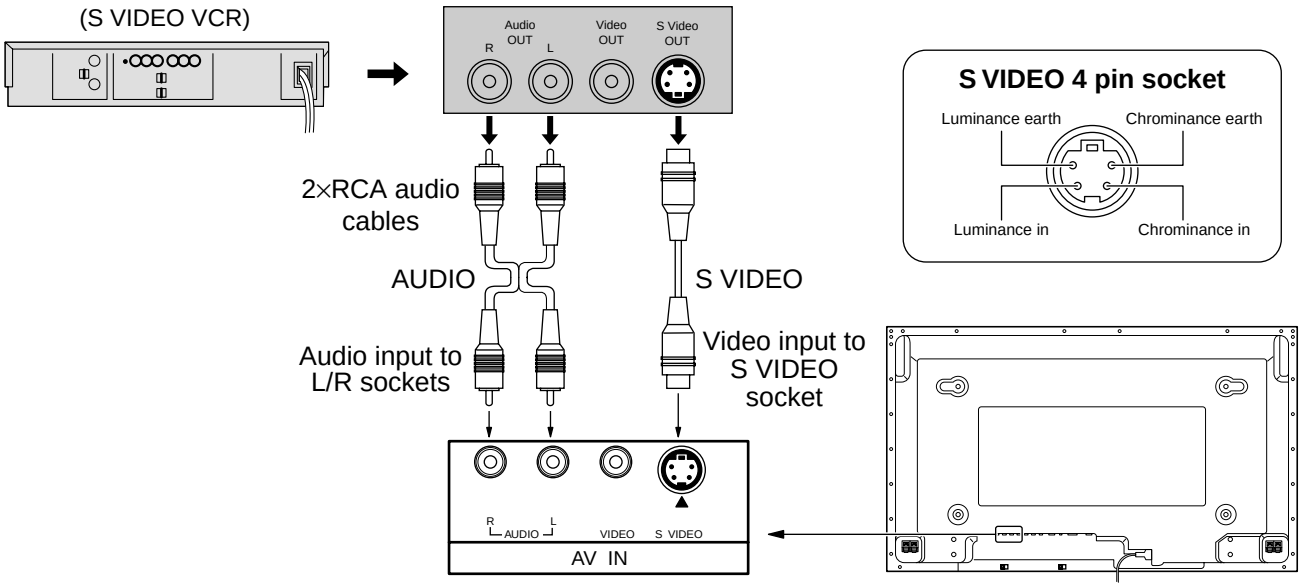
After installing the Optional Terminal Board, the Setup menu screen on the Plasma Display will change. (The input signal cables should be connected to the relevant terminals).

- The input signals that may be selected by the INPUT button will change.
- The required mode, either "Component" or "RGB" and "Component/RGB-In Select", will be available for selection.
- On the Setup menu screen, the setting contents under Signal will change.

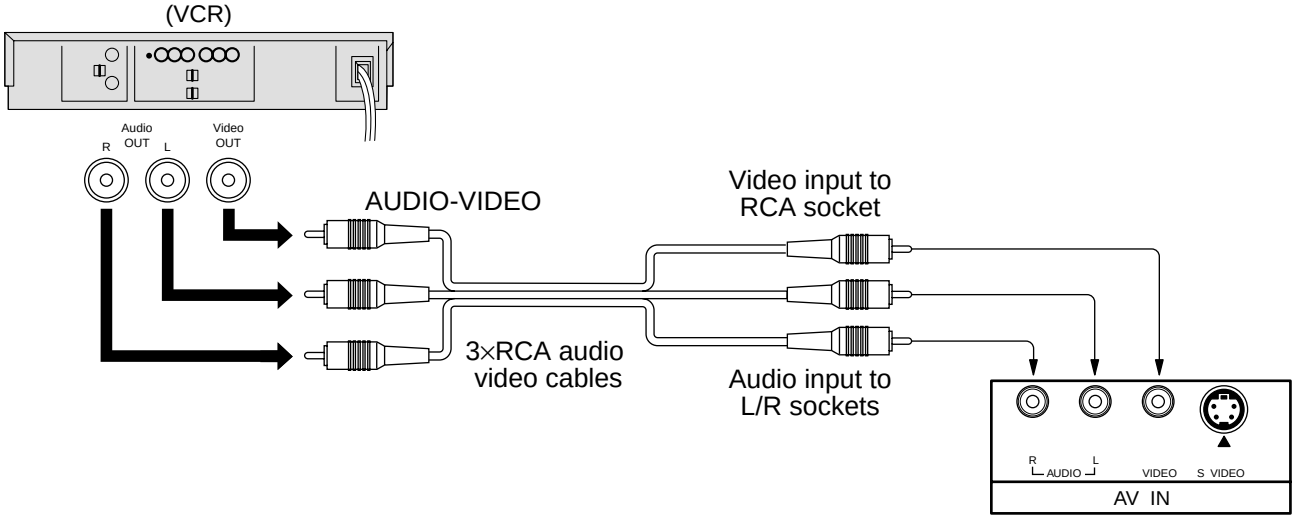
AV Input Terminals connection

Connect the signal source equipment

(Example) When connecting an S VIDEO VCR

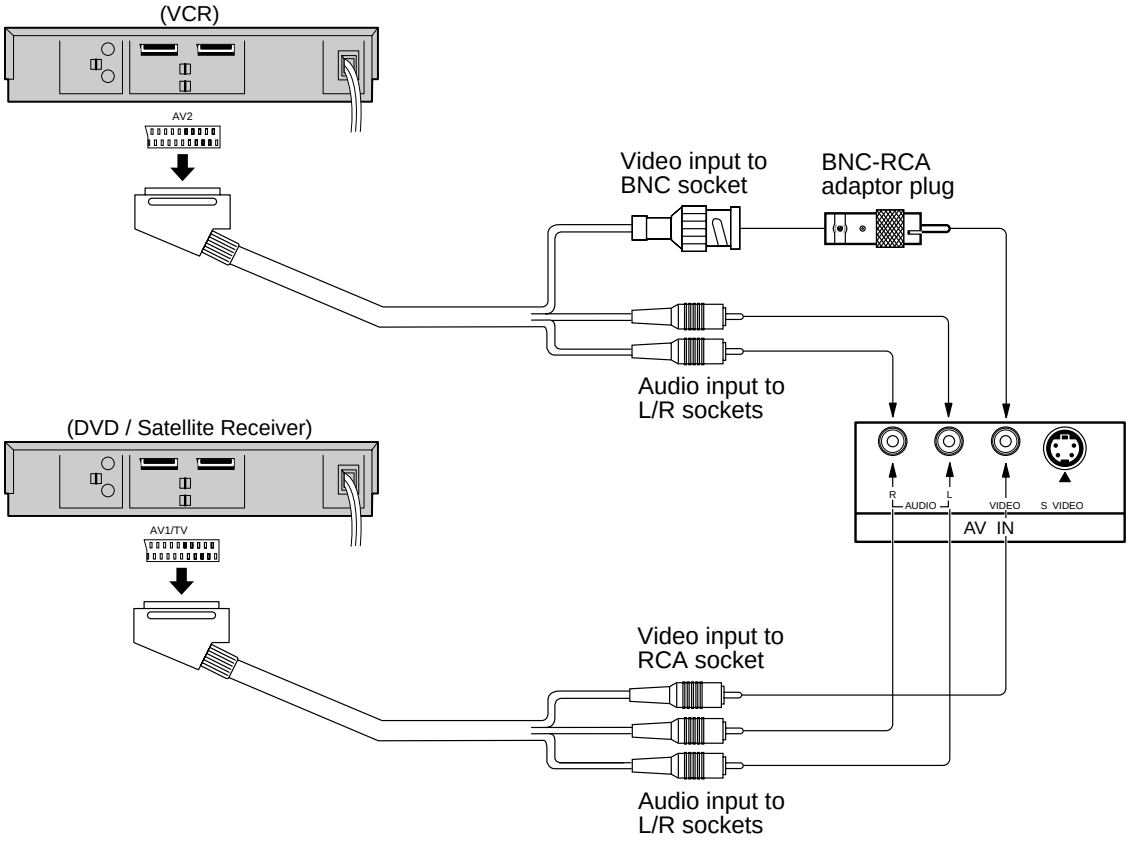


(Example) When connecting 3×RCA audio video cables



Notes:
(1) S-Video input will override the composite video signal when S-Video lead is connected.
(2) Additional equipment and cables shown are not supplied with this set.

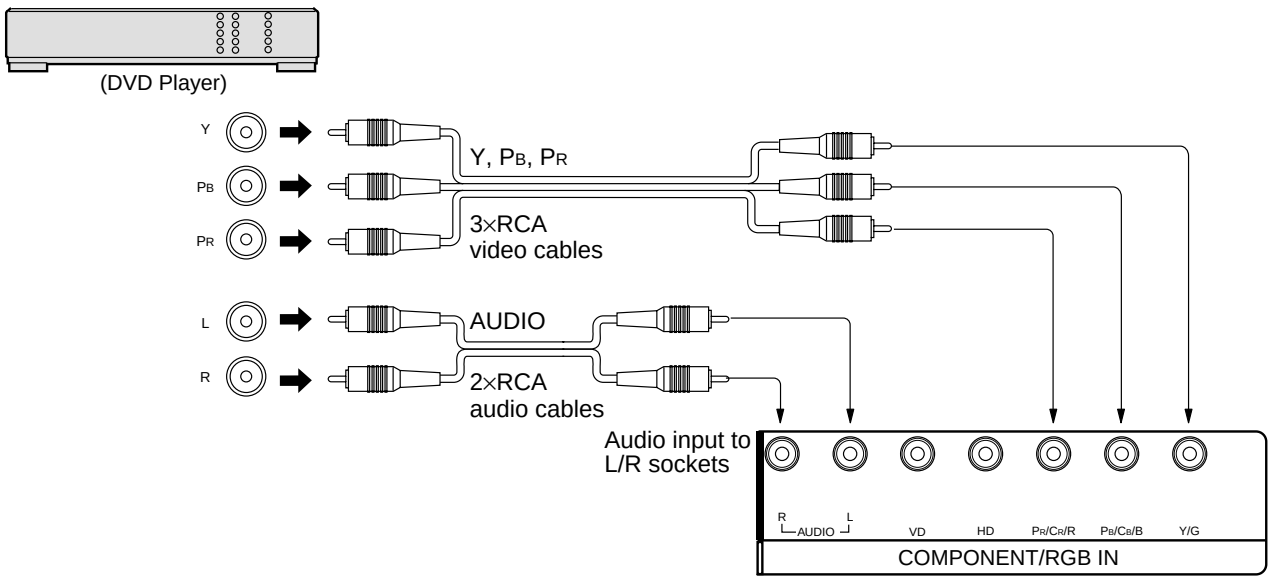
(Example) When connecting 21 pin scart cables



Notes:
(1) Additional equipment, cables and an adaptor plug shown are not supplied with this set.
(2) 21 pin connectors and 21 pin scart plugs are connectors used in Europe.
(3) The S Video input will override the composite video signal when S Video lead is connected.

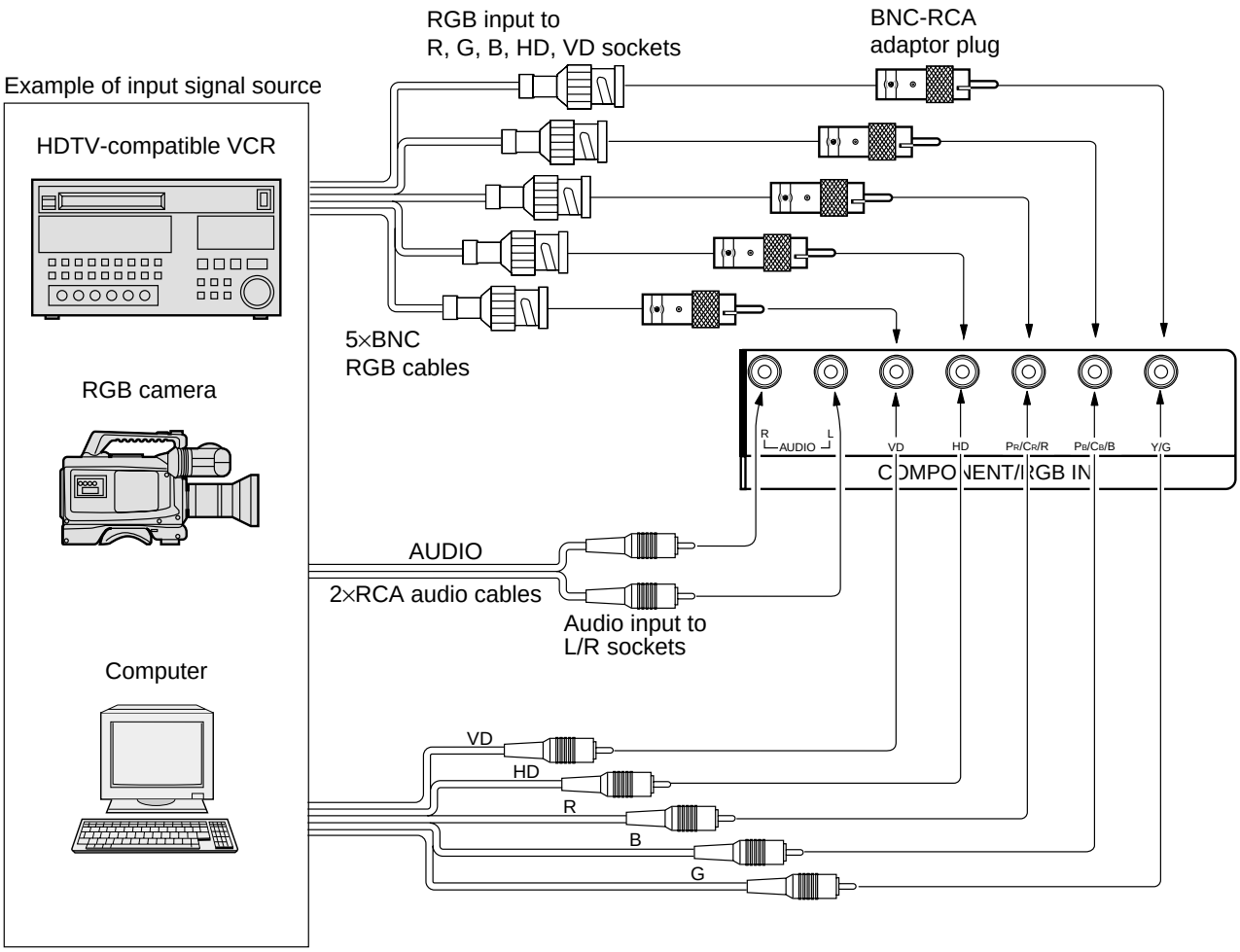
Component/RGB Input connection

Component signals (Y, P_B, P_R) connection



Notes:
(1) Change the “Component/RGB-in” setting in the “Setup” menu to “Component”. (see page 32)
(2) Additional equipment and cables shown are not supplied with this set.

RGB signal (R, G, B, HD, VD) connection

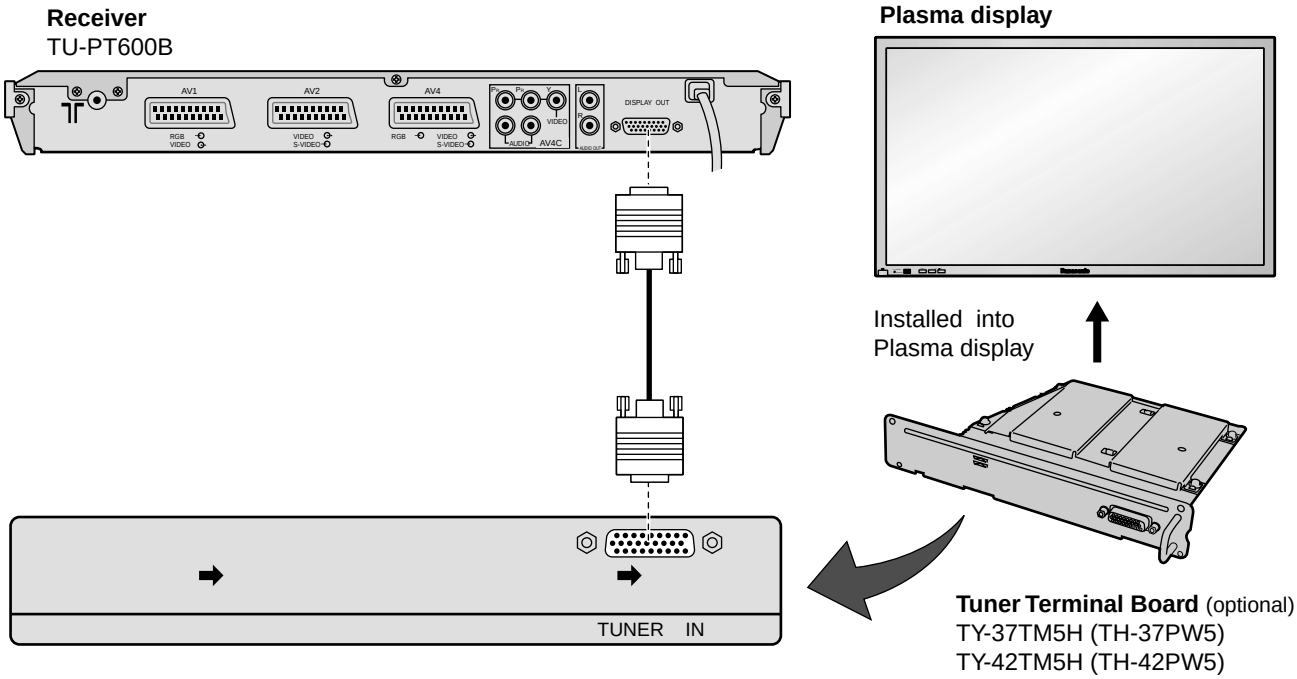


Notes:
(1) Change the “Component/RGB-in” setting in the “Setup” menu to “RGB”. (see page 32)
(2) Additional equipment, cables and adaptor plugs shown are not supplied with this set.

Dedicated Receiver connection

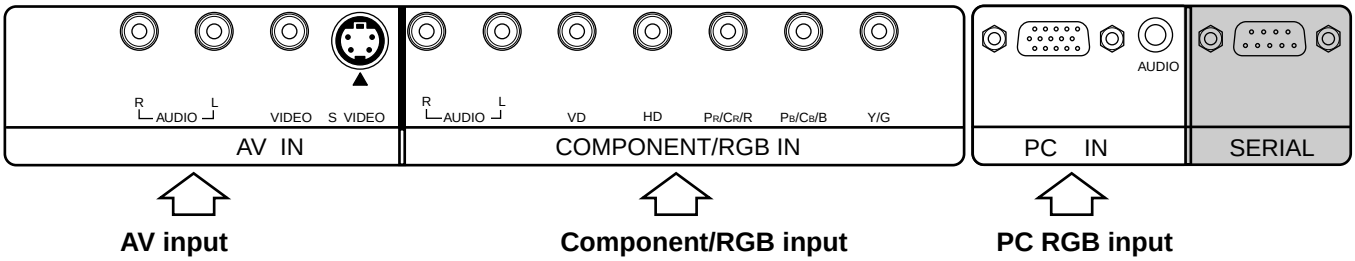
Connecting Dedicated Receiver to a display fitted with a Tuner Terminal Board.

Notes:
PC and Serial cannot be accessed when the tuner is connected as shown.



Input signal can be displayed

AV/Component /RGB/ PC input signals



AV input **Component/RGB input** **PC RGB input**

AV input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

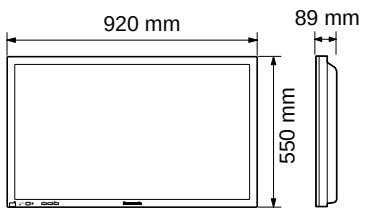
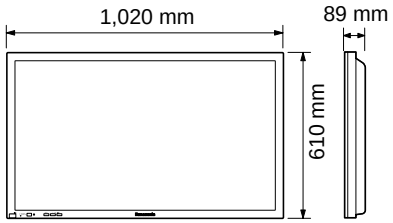
∗ Mark:
Input signal can be displayed.

Component /RGB/PC input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	Component	RGB	PC
1	525 (480) /60i	15.734	59.94	∗	∗	∗
2	625 (575) /50i	15.625	50	∗	∗	∗
3	525 (480) /60p	31.468	59.94	∗	∗	
4	625 (575) /50p	31.25	50	∗	∗	∗
5	750 (720) /60p	45	60	∗	∗	∗
6	1,125 (1,080) /60i	33.75	60	∗	∗	∗
7	1,125 (1,080) /50i	28.125	50	∗	∗	∗
8	1,125 (1,080) /24p	27	24	∗	∗	∗
9	1,125 (1,080) /24sF	27	48	∗	∗	∗
10	640 × 400 @70	31.5	70		∗	∗
11	640 × 480 @60	31.5	59.94		∗	∗
12	Macintosh13” (640 × 480)	35	67		∗	∗
13	640 × 480 @75	37.5	75		∗	∗
14	852 × 480 @60	31.7	60		∗	∗
15	800 × 600 @60	37.9	60		∗	∗
16	800 × 600 @75	46.9	75		∗	∗
17	800 × 600 @85	53.7	85		∗	∗
18	Macintosh16” (832 × 624)	49.7	75		∗	∗
19	1,024 × 768 @60	48.4	60		∗	∗
20	1,024 × 768 @70	56.5	70		∗	∗
21	1,024 × 768 @75	60	75		∗	∗
22	1,024 × 768 @85	68.7	85		∗	∗
23	Macintosh21” (1,152 × 870)	68.7	75		∗	∗
24	1,280 × 1,024 @60	64	60		∗	∗
25	1,280 × 1,024 @75	80	75		∗	∗
26	1,280 × 1,024 @85	91.1	85		∗	∗
27	1,600 × 1,200 @60	75	60		∗	∗

Specifications

		TH-37PW5	TH-42PW5
Power Source		220 - 240 V AC, 50/60 Hz	
Power Consumption			
	Normal use	225 W	295 W
	Stand-by condition	2.8 W	2.8 W
	Power off condition	1.5 W	1.5 W
Plasma Display panel		Drive method AC type 37-inch, 16:9 aspect ratio	Drive method AC type 42-inch, 16:9 aspect ratio
	Contrast Ratio	3000:1	
Screen size		818 mm (W) × 461 mm (H) × 939 mm (diagonal) No. of pixels 408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]	920 mm (W) × 518 mm (H) × 1056 mm (diagonal) No. of pixels 408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]
Operating condition			
Temperature		0 °C - 40 °C	
Humidity		20 % - 80 %	
Applicable signals			
	Colour System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
	Scanning format	525i (480i), 625i (575i), 525p (480p), 625p (575p), 750p (720p), 1,125/60i, 50i, 24p, 24sF (1,080/60i, 50i, 24p, 24sF) ……SMPTE 274M	
	PC signals	VGA display VGA SVGA, XGA, SXGA, UXGA (compressed) Horizontal scanning frequency 15.6 - 110 kHz Vertical scanning frequency 48 - 120 Hz	
Connection terminals			
	PC	(HIGH-DENSITY D-SUB 15PIN) R,G,B/0.7 Vp-p (75-ohm) HD, VD/1.0 - 5.0 Vp-p (high impedance) AUDIO IN (M3 JACK) 0.5 Vrms (high impedance)	
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE	
	SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	16W [8 W + 8 W] (10 % THD)
Accessories Supplied			
	Remote Control Transmitter	EUR646525	
	Batteries	2 × R6 Size	
	Fixing bands	(TMME203 or TMME 187) × 2	
	Ferrite core	J0KF00000018 × 1, J0KG00000054 × 2	

		TH-37PW5	TH-42PW5
Optional Supplied			
	Speakers	TY-SP37P5W-S	TY-SP42P5W-S
	Pedestal	TY-ST05-S	
	Wall stand	TY-ST42PW1	
	Mobile stand	————	TY-ST42PF3
	Wall-hanging bracket (vertical)	TY-WK37PV3	TY-WK42PV1
	Wall-hanging bracket (angled)	————	TY-WK42PR1
	Ceiling unit	TY-CE42PS1	
	Scart/Component Terminal Board	TY-37TM5TB	TY-42TM5TB
	RCA Terminal Board	TY-37TM4Z B	TY-42TM4ZB
	Receiver	TU-PT600B	
	Tuner Terminal Board	TY-37TM5H	TY-42TM5H
	Connecting Cable	TY-SCP15C03	
Dimensions (W × H × D)		920mm × 550 mm × 89 mm 	1,020mm × 610 mm × 89 mm 
Mass (Weight)		approx. 24.0 kg net (main unit only) approx. 28.2 kg (with speakers)	approx. 28.0 kg net (main unit only) approx. 32.2 kg (with speakers)

Notes:

(1) Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

(2) This equipment complies with the EMC standards listed below.
EN55022, EN61000-3-2, EN61000-3-3, EN61000-6-2.

Customer' Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____ Serial Number _____

Matsushita Electric Industrial Co., Ltd.
Web Site : http://www.panasonic.co.jp/global/

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